



September 8, 2015

Jim Orr, R.G.
NWR Cleanup Program
Remedial Action Project Manager
Oregon Department of Environmental Quality
2020 SW 4th Avenue, Suite 400
Portland, Oregon 97201-4987

**Re: Draft Stormwater Source Control Evaluation Report
Lampros Properties, 9040 N Burgard Way, Portland, Oregon**

Dear Mr. Orr,

This Draft Stormwater Source Control Evaluation Report has been prepared in partial fulfillment of the Letter Agreement between DEQ and Lampros Properties dated March 10, 2011 and signed on May 4, 2011. In addition, the Source Control Evaluation Report addresses DEQ's specific requests made in the August 6, 2015 letter to Lampros Properties. The following table summarizes those requests and where they are addressed in the attached Source Control Evaluation Report.

	DEQ Request	Section of SCE Report
a	Document the stormwater line cleanouts by identifying locations of pipes cleaned on a site map, describing in the text cleaning and containment methods, volumes removed, sampling methods and results, and attaching disposal manifests.	5.1.2 – Catch Basin and Inline Sediment Sampling 6 - SCMs
b	Provide discussion in the text of laboratory analysis issues in achieving method detection limits comparable to Portland Harbor screening level values. For future sampling, ensure that the lab uses analytical methods capable of achieving appropriate method detection limits. In the event of matrix interferences, employ H ₂ SO ₄ or silica gel cleanup protocols, rather than dilution, for PAH, PCB, and phthalates analyses.	5.3.1 – Method Detection Limit and QA/QC Issues
c	Include storm event hydrographs for all sampling events, as found in DEQ's guidance, that document rainfall for 24 hours prior to the sampling, when flow began on site, and when sampling occurred, for both the past and proposed stormwater sampling events.	Appendix B
d	Provide tables that include all relevant site-related data, as found in DEQ Guidance	Table 2 and Table 3
e	Screen stormwater data against Draft EPA PRGS (see August 6, 2015 Email).	Table 2 and Table 3

September 8, 2015

Jim Orr, R.G.

Page 2

	DEQ Request	Section of SCE Report
f	Evaluate and discuss the magnitude of SLV/PRG exceedances for all stormwater and sediments samples, including a comparison of detected levels to the rank-order curves found in Appendix E of DEQ's guidance. DEQ's rank-order curves are available in Excel format for plotting site data on the curves.	5.3 – Data Interpretation 7.1 – Data Evaluation Appendix D
g	Document on a map and in text the frequency and extent of routine and targeted site-wide vacuum sweeping.	Figure 4 4 – Ongoing Stormwater Management Measures
h	Document application of stormwater management practices (e.g., sweeping, catch basin repair/cleanout, repaving or grading changes around catch basins, catch basin inserts, wattles around catch basins or at the toe of erosive slopes or swale) site-wide, rather than only at catch basins planned for sampling. Document on a map and discuss in the text the extent of asphalt repairs and specific erosion controls.	Figure 4 Figure 5 4 – Ongoing Stormwater Management Measures 6 – Source Control Measures
i	Evaluation pavement conditions requires paving, provide a schedule for completion	6 – Source Control Measures 8 – Findings and Conclusions
j	If the evaluation of asphalt conditions requires paving, provide a schedule for completion.	NA
k	Include a section summarizing the sampling results, BMP improvements in response and resulting effectiveness, along with recommendations of additional BMPs or enhancements and other appropriate source control measures (potentially including catch basin retrofits, installation of manholes to allow for effective line cleaning, and installation of stormwater treatment facilities and a schedule for completion.	7 – Source Control Evaluation 8 – Findings and Conclusions
l	Please prepare and submit for DEQ review and approval a work plan for additional stormwater sampling this fall and effectiveness monitoring following installation of additional source control measures. Please note that previously approved sample locations are no longer valid and DEQ's Guidance recommends four sample events. New sampling points should be proposed in light of the requested summary of work to date and evaluation to target source tracing and source control measure effectiveness.	Appendix A
m	Contact Mat Cusma (Schnitzer Steel) to participate in cooperative source control measures (including catch basin cleanout and regularly scheduled sweeping) and maintenance of the shared, private roadways used by occupants of the Schnitzer Burgard Industrial Park.	NA To be completed outside the Source Control Evaluation Report

September 8, 2015

Jim Orr, R.G.

Page 3

As presented in the attached draft Source Control Evaluation report, extensive Site stormwater work has been completed and BMPs have been implemented to target a reduction in TSS. Recent results indicate that the cleaning of catch basins, routine sweeping, and installation of catch basin filtration inserts can achieve source control objectives. These measures are in place to achieve source control and good stormwater management. Continual stormwater sampling will monitor the effectiveness of the best management practices and source control measures implemented at the Site.

Please let us know if you have any questions.

Sincerely,
SLR International Corporation



R. Scott Miller, P.E.
Managing Principal



Raechele Frogner
Project Manager

cc Marcus Lampros
 Drew Gilpin

Enc Draft Source Control Evaluation Report



global environmental solutions

Lampros Properties
9040 N Burgard Way
Portland, Oregon

Draft Source Control Evaluation Report

Project Number: 108.00895.00002

August 2015



DRAFT SOURCE CONTROL EVALUATION REPORT

Prepared for:

Lampros Properties
9040 N Burgard Way
Portland, Oregon

This document has been prepared by SLR International Corp. The material and data in this report were prepared under the supervision and direction of the undersigned.

Raechel Frogner
Project Manager

Scott Miller, P.E.
Managing Principal

CONTENTS

1.	INTRODUCTION.....	1
1.1	Purpose	1
1.2	Source Control Objective	1
1.3	Regulatory Framework	1
1.4	Report Organization	1
2.	SITE BACKGROUND.....	3
2.1	Site Description	3
2.2	Stormwater Conveyance System	3
2.3	Site Ownership and Operating History	3
2.4	Regulatory History	4
2.5	Previous Investigations	4
3.	POTENTIAL SOURCES AND CONTAMINANTS OF INTEREST	5
3.1	Potential Contaminant Sources	5
3.2	Outfall Sediment Data	5
3.3	Contaminants of Interest	5
4.	ONGOING STORMWATER MANAGEMENT MEASURES	6
5.	DATA COLLECTION AND INTERPRETATION.....	7
5.1	Sampling	7
5.1.1	Stormwater Sampling	7
5.1.2	Catch basin and Inline Sediment Sampling	7
5.2	Data Summary	8
5.3	Data Interpretation.....	8
5.3.1	Method Detection Limit and QA/QC Issues	8
5.3.2	Stormwater SLV and PRG Exceedances	8
5.3.3	Sediment SLV and PRG Exceedances	9
5.3.4	Discussion	10
6.	SOURCE CONTROL MEASURES.....	11
7.	SOURCE CONTROL EVALUATION.....	12
7.1	Data Evaluation	12
8.	FINDINGS AND CONCLUSIONS.....	13
9.	REFERENCES.....	14

FIGURES

- | | |
|----------|---------------------------------|
| Figure 1 | Site Location Map |
| Figure 2 | Site Plan |
| Figure 3 | Stormwater Conveyance |
| Figure 4 | Locations of BMP Implementation |
| Figure 5 | Locations of SCM Implementation |

TABLES

- Table 1 Summary of Stormwater Sampling Events
- Table 2 Stormwater Analytical Results
- Table 3 Sediment Analytical Results

Note: Figures and Tables are presented at the end of the report.

APPENDICES

- Appendix A Stormwater Sampling Work Plan
- Appendix B Charts of Averaged COIs
- Appendix C Hydrographs
- Appendix D Laboratory Analytical Reports
- Appendix E Rank-Order Curves
- Appendix F TSS Concentration and BMP Implementation

ACRONYMS

BMP	Best Management Practice
COI	Contaminant of Interest
DEQ	Department of Environmental Quality
DRO	Diesel Range Organics
EPA	Environmental Protection Agency
ESC	Environmental Science Corporation
GRO	Gasoline Range Organics
IT Slip	Schnitzer International Terminals Slip
MDL	Method Detection Limit
OSC	Oregon Shipbuilding Corporation
PAH	Polycyclic Aromatic Hydrocarbon
PCB	Polychlorinated Biphenyl
PRG	Preliminary Remediation Goal
QA/QC	Quality Assurance/Quality Control
SCE	Source Control Evaluation
SCM	Source Control Measure
SLV	Screening Level Value
TOC	Total Organic Carbon
TPH	Total Petroleum Hydrocarbon
TSS	Total Suspended Solids
ug/L	Micrograms per Liter

1. INTRODUCTION

1.1 PURPOSE

SLR International Corporation (SLR) has prepared this Draft Source Control Evaluation (SCE) Report on behalf of Lampros Properties for the property located at 9040 N Burgard Way in Portland, Oregon (Site). The SCE was performed in response to a request by the Oregon Department of Environmental Quality (DEQ) to identify, evaluate, and control sources of contamination that may reach the Willamette River. This SCE was conducted in a manner consistent with the DEQ's *Guidelines for Evaluating the Stormwater Pathway at Upland Sites* (DEQ, 2010).

1.2 SOURCE CONTROL OBJECTIVE

The objective of this SCE is to demonstrate that existing and potential sources of contamination at the Site have been addressed and adequate measures are in place to achieve source control and good stormwater management.

1.3 REGULATORY FRAMEWORK

The SCE discussed in this report was performed in partial fulfillment of the Letter Agreement between DEQ and Lampros Properties dated March 10th, 2011, and signed on May 4th, 2011.

1.4 REPORT ORGANIZATION

The remainder of this report is organized by the following sections:

- **Section 2:** Site Background including descriptions of the physical property, stormwater conveyance systems, Site operating history, regulatory history, and a summary of previous investigations
- **Section 3:** Potential Sources of Contaminants of Interest including identification of current and historic contaminant sources based on Site background information and presentation of the selected contaminants of interest for this investigation
- **Section 4:** Ongoing Stormwater Management Measures including a summary of ongoing Best Management Practices (BMPs) being implemented at the Site
- **Section 5:** Data Collection and Interpretation including a description of sampling activities that were completed as part of this investigation
- **Section 6:** Source Control Measures (SCMs) including a description of the SCMs implemented at the Site during the course of this evaluation
- **Section 7:** Source Control Evaluation presenting the evidence used to support the determination that stormwater source control has been accomplished

- **Section 8:** Findings and Conclusions presenting the basis for determining that stormwater source control has been accomplished

2. SITE BACKGROUND

2.1 SITE DESCRIPTION

For the purposes of this report, the Site is defined as the property located at 9040 N Burgard Way in Portland, Oregon (Figure 1) in the Burgard Industrial Park. The Site is generally flat with an upward slope present on the eastern property boundary. The Site is approximately 25.2 acres and developed with one building totaling approximately 248,829 square feet. The remainder of the Site is asphalt-paved with the exception of the eastern property boundary, which consists of a vegetated hillside. The Site is located approximately 600 feet east of the Schnitzer International Terminals Slip (IT Slip) and approximately 2,800 feet from the western edge of the Willamette River. A site plan is presented as Figure 2.

2.2 STORMWATER CONVEYANCE SYSTEM

Stormwater from the Site enters the conveyance system through downspouts and catch basins. The conveyance system is shared with several other surrounding properties including Portland Container Corporation to the north and Northwest Pipe Co., Dunkin Thomas, and Boydston Metal Works to the south. In addition, stormwater from Burgard Way, Burgard Road, and Sever Road immediately adjacent to the north, east, and south, is conveyed through the stormwater lines present beneath the Site. Stormwater in this conveyance system is discharged to Outfall 18 (WR-123) located at the southeast end of the IT Slip. Figure 3 shows the current stormwater conveyance system, as well as catch basins present at the Site.

Catch basin filtration inserts designed to remove suspended solids and other pollutants from surface run-off before discharging to the stormwater conveyance system are present in high traffic areas of the Site. This includes catch basins CB-3, CB-9, CB-11, CB-S2, and CB-Z. Two types of filtration inserts are present on catch basins at the Site. One type of filtration insert is designed to remove suspended solids, oil and hydrocarbons, and dissolved metals. The other filtration insert is designed to remove suspended solids and oil and hydrocarbons. Figure 4 identifies catch basins equipped with filtration inserts.

2.3 SITE OWNERSHIP AND OPERATING HISTORY

Prior to 1941, the Site was undeveloped and consisted of low-lying marsh land. In early 1943, the Oregon Shipbuilding Corporation (OSC) shipyard was constructed on and around the property. During this time, the Site was filled in and used primarily for parking. The OSC Administration Building was located on the southern portion of the Site (Bridgewater Group, Inc., 2000). In 1945, the OSC operations ceased. The Site was vacant between 1945 and mid- to late-1960s (Bridgewater Group, Inc., 2000). The Site was used for log storage from the mid- to late-1960s until mid-1970s. Metra Steel (owned by Schnitzer Steel) owned the property from approximately 1975 to the late-1980s. It appears that the existing building was constructed and steel product storage occurred during this time. In 1986/1987, Ryerson Steel and Aluminum purchased the property and the business. The Site continued to operate as a steel storage facility during this time. Lampros Properties purchased the Site in late 2004 and operations have consisted of warehousing and outdoor storage of steel. No known hazardous substance usage, storage, and/or disposal have been documented at the Site.

2.4 REGULATORY HISTORY

As the Site operates as a steel storage and warehousing facility, it is not required to operate under a stormwater permit.

2.5 PREVIOUS INVESTIGATIONS

Previous investigations were not made available or do not exist for the Site.

3. POTENTIAL SOURCES AND CONTAMINANTS OF INTEREST

3.1 POTENTIAL CONTAMINANT SOURCES

Based on the current and historic operations at the Site, potential contaminant sources include onsite traffic and legacy dust and dirt accumulated onsite.

3.2 OUTFALL SEDIMENT DATA

Outfall-related data was considered when identifying the potential sources and contaminants of interest (COIs); however, there are no outfalls that are exclusively associated with the stormwater at the Site as the stormwater conveyance system that is present beneath the Site is shared with neighboring operations.

3.3 CONTAMINANTS OF INTEREST

COIs for this source control evaluation were based on Site history and historical stormwater sampling. COIs include total suspended solids (TSS), metals (aluminum, antimony, arsenic, cadmium, chromium, copper, lead, manganese, mercury, nickel, silver, and zinc), phthalate esters, polychlorinated biphenyls (PCBs), total petroleum hydrocarbons (TPH), total organic carbon (TOC), and polycyclic aromatic hydrocarbons (PAHs).

4. ONGOING STORMWATER MANAGEMENT MEASURES

Since 2012, Lampros Properties has implemented several stormwater Best Management Practices (BMPs). Consistent execution of BMPs has occurred since October 2014. BMPs were implemented as ongoing stormwater management measures to reduce concentrations of COIs in stormwater discharge from the Site. The Site will continue to monitor the effectiveness of BMPs through continual stormwater sampling. A stormwater sampling work plan for effectiveness monitoring is provided in Appendix A. BMPs implemented include:

- Routine vacuum sweeping of the drive areas and hand sweeping/removal of observed accumulation of materials in the paved storage areas to reduce solids picked up by stormwater run-off. Weekly sweeping of the Site was implemented in fall 2014. River City Environmental Inc. is contracted to perform vacuum sweeping of the Site. Before the start of and during the rainy season, vacuum sweeping occurs once per week. Routine and targeted site-wide vacuum sweeping areas are shown on Figure 4.
- As-needed pressure-washing of worn asphalt pavement in primary drive areas. Site personnel perform this work on an as-needed basis, generally occurring once per year, before the start of the rainy season.
- Installation, inspection, and maintenance of catch basin filtration inserts selected for suspended solids and other pollutant removal. Catch basin filtration inserts are currently installed on catch basins CB-3, CB-9, CB-11, CB-S2, and CB-Z. Nine additional catch basin filtration inserts will be installed on catch basins located in high traffic areas on the Site. These catch basins are indicated on Figure 4. Two types of filtration inserts are present on catch basins at the Site. One type of filtration insert is designed to remove suspended solids, oil and hydrocarbons, and dissolved metals. The other filtration insert is designed to remove suspended solids and oil and hydrocarbons.

5. DATA COLLECTION AND INTERPRETATION

5.1 SAMPLING

5.1.1 STORMWATER SAMPLING

Eight quarterly stormwater sampling events have occurred since June 2012. Sampling was performed in general accordance with the most recently submitted Work Plan for Stormwater Evaluation dated April 2, 2014. A summary of sample dates, catch basins sampled, and parameters analyzed is provided in Table 1.

Figure 2 shows the locations of the catch basins. Stormwater samples were collected during measurable rainfall events that resulted in sufficient flow to collect stormwater entering the catch basins. In addition, sampling occurred during rainfall events that met the Joint Source Control Strategy storm event criteria (DEQ/EPA, 2005). Samples collected on May 8, 2014 are considered to be “first flush” samples. The remaining samples are considered representative of long-term rainfall events.

Stormwater at the Site commingles with surrounding sites in the Burgard Industrial Park before discharging to Outfall 18 at the east end of IT Slip as shown on Figure 2. To provide a representative sample of stormwater “discharges” associated with the Site, stormwater sampling occurs at discrete catch basins over a storm event. There are no point discharges that are exclusively from the Site. Sampling locations were chosen to be representative of stormwater present on the Site and are generally spread out throughout the Site. Analytical results from each sampling event are averaged to obtain a mean concentration representative of stormwater at the Site and are plotted over time to demonstrate reductions in concentrations (Appendix B). Hydrographs of the rainfall events resulting in stormwater sampling are included in Appendix C.

5.1.2 CATCH BASIN AND INLINE SEDIMENT SAMPLING

Sediment samples have been collected on two occasions from the Site. On April 20, 2012 two sediment samples were collected from catch basins at the Site. One composite sample from CB-7, CB-9, and CB-11 and one sample from CB-6. In November, two sediment samples from the cleaning of the trunk line of the stormwater conveyance system were collected. A summary of sample dates and parameters analyzed is provided below.

<i>Sample Date</i>	<i>Parameters Analyzed</i>
4/20/2012	Metals, PCBs, PAHs, Phthalates Esters, TPH-GRO, TPH-DRO, TOC
11/1/2013	Metals, PCBs, PAHs, Phthalates Esters, TPH, TOC
11/7/2013	Metals, PCBs, PAHs, Phthalates Esters, TPH, TOC

5.2 DATA SUMMARY

Stormwater analytical results are summarized in Table 2 and catch basin and inline sediment results are summarized in Table 3. Laboratory analytical reports are included in Appendix D. Analytical results were compared to Screening Level Values (SLVs) presented in the *Portland Harbor Joint Source Control Strategy* (DEQ and EPA, 2005) and EPA Draft Preliminary Remediation Goals (PRGs) as provided by Jim Orr in an August 6, 2015 email to Lampros. In addition, stormwater event averages and sediment results were compared to rank-order curves provided in Appendix E of DEQ Stormwater Source Control Evaluation Guidance (DEQ, 2010). These curves are provided in Appendix E.

5.3 DATA INTERPRETATION

This section presents method detection limits (MDLs) and quality assurance/quality control (QA/QC) issues, SLV exceedances, and a discussion of the laboratory analytical data.

5.3.1 METHOD DETECTION LIMIT AND QA/QC ISSUES

SLR reviewed MDLs from Specialty Analytical and Environmental Sciences Corp (ESC) presented in their respective lab reports for Site stormwater sampling. MDLs were compared to the SLVs presented in the *Portland Harbor Joint Source Control Strategy* (DEQ and EPA, 2005). There are instances of MDLs exceeding SLVs. However, in general since October 2014, MDLs do not exceed SLVs. When MDLs exceed SLVs, it is due to instrument or sample volume limitations. The lab uses appropriate means to achieve the lowest possible detection limits.

According to the laboratory analytical reports there were no problems identified with the analysis and all data for associated QC met Environmental Protection Agency (EPA) or laboratory specifications. Details of the laboratory QC procedures and results are included within the laboratory analytical reports (Appendix D).

5.3.2 STORMWATER SLV AND PRG EXCEEDANCES

Stormwater analytical results from discrete sampling locations were compared to Portland Harbor SLVs and Draft EPA PRGs. In addition, average concentrations for a given sampling event were evaluated and compared to rank-order curves (Appendix E). Mean concentrations were calculated to account for the physical averaging of stormwater that occurs in the shared conveyance system and ultimately in the discharge from Outfall 18. The averaged analytical results for each sampling event provide concentrations of analytes representative of the Site's contribution of stormwater discharge. Half of the detection limit was used for the averaging of non-detect results.

The implementation of BMPs and SCMs, such as frequent sweeping of the Site and removal of accumulated dust and dirt, had occurred by the fall of 2014. As such, stormwater samples collected after October 2014 are discussed below as they are the most representative of current and future Site conditions. Samples collected before the filtration insert are considered in this discussion; however, future sampling will consider the post filtration sample. The Site was not practicing regular sediment removal from catch basins and stormwater conveyance lines before February 2015 and post filtration samples were not representative of stormwater run-off on the

Site. Section 8 discusses the BMPs that will be implemented regularly to monitor their effectiveness.

5.3.2.1 Inorganic Constituents

In general, a correlation between TSS and metals is present in stormwater at the Site. In a July 3, 2014 letter regarding the Updated Stormwater BMP Plan, a positive correlation between TSS and metals was provided to DEQ. This correlation supported the approach to focus on the reduction of TSS concentrations in stormwater to also reduce the concentrations of metals.

Appendix B includes charts of averaged concentrations of aluminum, cadmium, lead, nickel, and TSS for each sampling event. These COIs had instances of SLV exceedances and when compared to other Portland Harbor sites (Appendix E), discrete sampling locations had instances of exceeding “typical” concentration ranges. However, February 2015 sampling results reported concentrations of these metals at “typical” concentrations for Portland Harbor sites and/or below SLVs. Based on these results, the Site is not contributing to releases of metals at unacceptable levels to the Willamette River.

5.3.2.2 Organic Constituents

5.3.2.2.1 PCB Aroclors

No PCB Aroclors have been detected in stormwater samples collected from the Site since June 2012. As such, the Site is not contributing to releases of PCBs to the Willamette River from stormwater discharges.

5.3.2.2.2 Phthalate Esters

Phthalate ester concentrations in stormwater samples have been below detection limits, with the exception of bis(2-ethylhexyl)phthalate, dimethyl phthalate, and di-n-butyl phthalate. Only bis(2-ethylhexyl)phthalate has exceeded its SLV and these exceedances are within the “typical” concentration range for industrial sites along the Portland Harbor (Appendix E). Based on these results, the Site is not contributing to releases of phthalate esters at unacceptable levels to the Willamette River.

5.3.2.2.3 PAHs

PAHs have been detected in stormwater samples slightly above detection limits and at concentrations above SLVs. However, when compared to other Portland Harbor sites (Appendix E), discrete sampling locations tend to be within the “typical” concentration range. Further, average concentrations of total PAHs are generally below 2 micrograms per liter (ug/L). Based on these results, the Site is not contributing to releases of PAHs at unacceptable levels to the Willamette River.

5.3.3 SEDIMENT SLV AND PRG EXCEEDANCES

Sediment samples have been collected on two occasions from the Site. The results from the most recent sampling of inline sediments are discussed below.

5.3.3.1 Inorganic Constituents

Sediment samples at the Site have been analyzed for aluminum, antimony, arsenic, cadmium, chromium, copper, lead, manganese, mercury, nickel, silver, and zinc. Inline sediment sample,

Solids-2, reported no concentrations of metals above SLVs. Inline sediment sample, Solids-1, reported concentrations of cadmium, lead, mercury, and zinc slightly above SLVs. These COIs were compared to other Portland Harbor sites and concentrations were within “typical” ranges (Appendix E).

5.3.3.2 Organic Constituents

5.3.3.2.1 PCB Aroclors

Inline sediment sample, Solids-2, reported no concentrations of PCBs above SLVs. Inline sediment sample, Solids-1, reported concentrations of the PCB Aroclor 1260 at a concentration exceeding SLVs.

5.3.3.2.2 Phthalate Esters

Inline sediment sample, Solids-2, reported no concentrations of phthalate esters above SLVs. Inline sediment sample, Solids-1, reported a concentration of bis(2-ethylhexyl)phthalate greater than the SLV; however, when compared to other industrial sites along the Portland Harbor, this concentration was well below “typical” concentrations (Appendix E).

5.3.3.2.3 PAHs

Inline sediment sample, Solids-2, reported no concentrations of PAHs above SLVs. Inline sediment sample Solids-1, reported concentrations of PAHs slightly above SLVs. Total PAH concentrations were compared to other industrial sites along the Portland Harbor and were below “typical” concentrations (Appendix E).

5.3.4 DISCUSSION

A correlation between TSS and metals is present in stormwater at the Site. Extensive Site stormwater work has been completed and BMPs have been implemented to target a reduction in TSS. Recent results indicate that the cleaning of catch basins, routine sweeping, and installation of catch basin filtration inserts can achieve source control objectives. A reduction of average TSS concentrations at the Site has been observed with the regular implementation of BMPs (shown in Appendix F). Stormwater sampling for fall and winter of 2016, will demonstrate the effectiveness of BMPs and SCMs implemented at the Site. Specifics of continued BMP implementation and evaluation are discussed in Section 8.

6. SOURCE CONTROL MEASURES

Source Control Measures (SCMs) implemented at the Site aimed to reduce the concentration of COIs in stormwater. SCMs targeted potential sources of particulates entering the stormwater conveyance system and sediments that had accumulated in the conveyance system. Locations of SCMs are shown on Figure 5 and photographs of SCMs are included on photo sheets accompanying the figure. Since 2012, the following SCMs have been completed at the Site:

- In September 2013, asphalt pavement re-surfacing occurred in areas with heavy asphalt damage. This included the immediate area around catch basins CB-3 and CB-11.
- In September 2013, soil erosion protection was installed at the eastern property boundary near catch basin CB-East. Soil erosion protection included the construction of a retaining wall using filtration rock and drainage-type blocks between the bank of the hillside and CB-East.
- On November 1, 2013 and November 7, 2013, Lampros Properties contracted with River City Environmental to clean sediment from two areas of the trunk line of the stormwater conveyance system. Cleaning was performed using a vacuum-truck. Approximately 40,000 gallons of material were removed and disposed of off-site by River City Environmental. Figure 5 indicates the stormwater conveyance lines that were cleaned out. Sediment samples were collected from the vacuum-truck and submitted to Specialty Analytical for analysis of metals (aluminum, antimony, arsenic, cadmium, chromium, copper, lead, manganese, mercury, nickel, silver, and zinc), PAHs, TPH, PCBs, and phthalate esters. Table 3 summarizes the results of the laboratory analysis.
- In the summer of 2014, extensive power washing of the Site removed legacy dirt and dust that had accumulated on the Site. Two, 20-yard roll-offs were filled with dirt and gravel debris.
- In February 2015, catch basin CB-4 was rebuilt.
- Ongoing evaluations of pavement conditions indicate that there have been areas in need of repair. These repairs have occurred, as noted above, around two catch basins. The effectiveness of BMPs outlined in Section 8 will be evaluated before paving large areas of the Site is considered as an SCM.

7. SOURCE CONTROL EVALUATION

7.1 DATA EVALUATION

Average concentrations for a given sampling event were used in this source control evaluation. Mean concentrations were calculated to account for the physical averaging of stormwater that occurs in the shared conveyance system and ultimately in the discharge from Outfall 18. The averaged analytical results for each sampling event provide concentrations of analytes representative of the Site's contribution of stormwater discharge. Half of the detection limit was used for the averaging of non-detect results.

The implementation of BMPs and SCMs, such as frequent sweeping of the Site and removal of accumulated dust and dirt, had occurred by the fall of 2014. As such, stormwater samples collected after October 2014 are discussed, as they are the most representative of current and future Site conditions. Samples collected before the filtration insert are considered in this discussion. However, future sampling will consider the post filtration sample. The Site was not practicing regular sediment removal from catch basins and stormwater conveyance lines before February 2015 and post filtration samples were not representative of stormwater run-off on the Site. Section 8 discusses the BMPs that will be implemented regularly to monitor their effectiveness.

A correlation between TSS and metals is present in stormwater at the Site. In a July 3, 2014 letter regarding the Updated Stormwater BMP Plan, a positive correlation between TSS and metals was provided to DEQ. This correlation supported the approach to focus on the reduction of TSS concentrations in stormwater to also reduce the concentrations of metals.

Appendix B includes charts of averaged concentrations of aluminum, cadmium, lead, nickel, and TSS for each sampling event. A reduction of these COIs has been reported since October 2014. Based on these results, SCMs and BMPs appear to be reducing COI concentrations in stormwater.

8. FINDINGS AND CONCLUSIONS

Extensive Site stormwater work has been completed and BMPs have been implemented to target a reduction in TSS. Recent results indicate that the cleaning of catch basins, routine sweeping, and installation of catch basin filtration inserts can achieve source control objectives. Adequate measures are in place to achieve source control and good stormwater management measures occur in the future. BMPs in place at the Site include:

- Bi-annual removal of sediments accumulated in the catch basins at the Site. Sediment removal will occur by vacuum-truck in the fall before the onset of the rainy season and in the spring after the seasonally heavy rains have ended. Accumulated sediments will be disposed of offsite by the subcontractor performing the sediment removal work.
- Routine vacuum sweeping of the drive areas and hand sweeping/removal of observed accumulation of materials in the paved storage areas to reduce solids picked up by stormwater run-off. Weekly sweeping of the Site will occur before the start of and during the rainy season.
- As-needed pressure-washing of worn asphalt pavement in primary drive areas. Site personnel will continue to perform this work on an as-needed basis, generally occurring once per year, before the start of the rainy season.
- Installation, inspection, and maintenance of catch basin filtration inserts selected for suspended solids and other pollutant removal. Catch basin filtration inserts are currently installed on catch basins CB-3, CB-9, CB-11, CB-S2, and CB-Z. Nine additional catch basin filtration inserts will be installed on catch basins located in high traffic areas on the Site. Catch basin filtration inserts will be replaced at least once per year, or more frequently if monthly inspection indicates a need for replacement.
- Evaluation of pavement conditions at the Site will occur on an ongoing basis. The BMPs outlined above will be monitored for their effectiveness before paving is seriously considered as an SCM.

Lampros will perform stormwater sampling in accordance with the Work Plan provided in Appendix A to demonstrate effectiveness of BMPs.

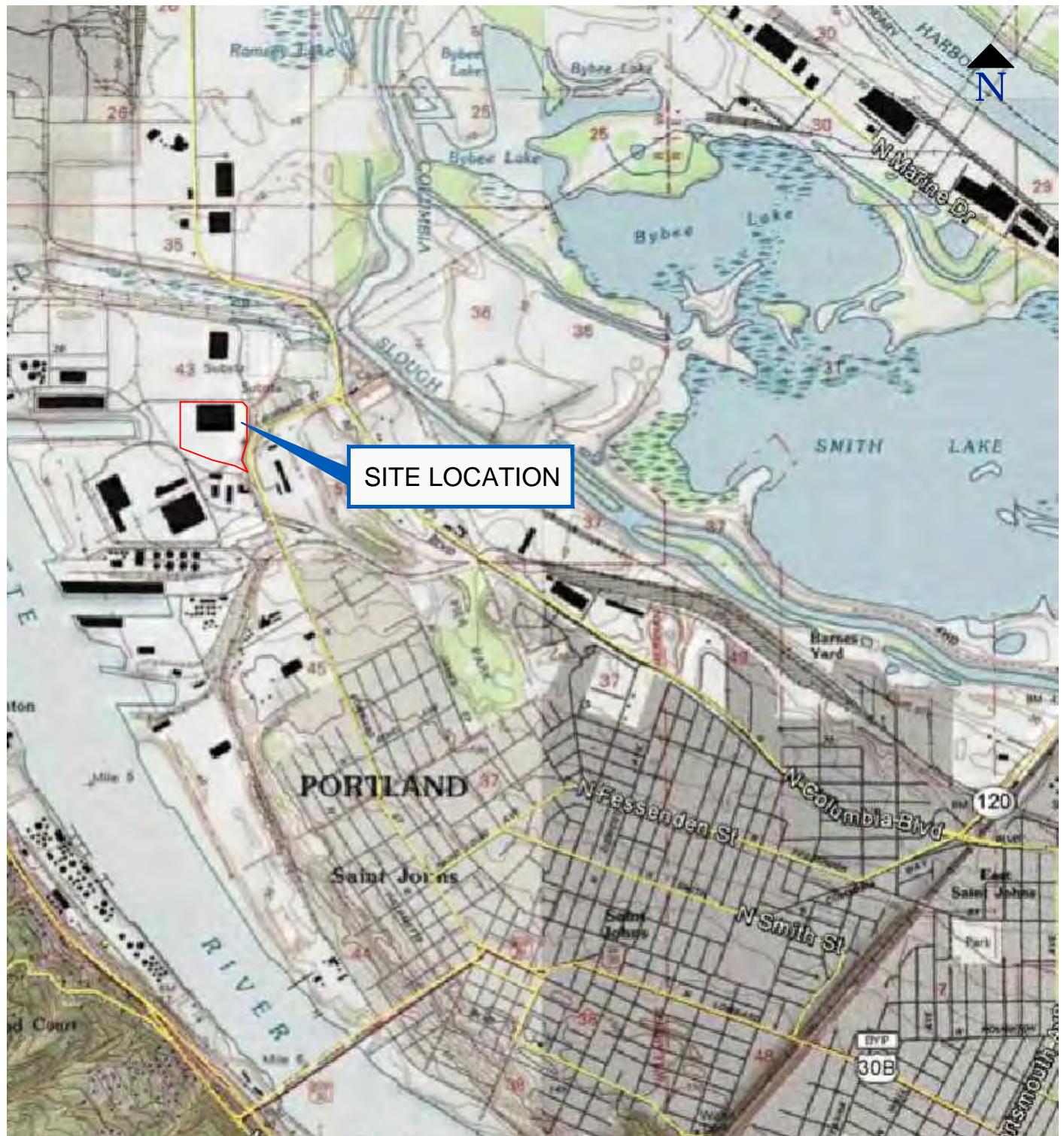
9. REFERENCES

Bridgewater Group, Inc. 2000. Site History Review – Burgard Industrial Park, 12005 North Burgard Road, Portland, Oregon. Prepared for Schnitzer Investment Corp. September 25, 2000.

DEQ. “*Guidelines for Evaluating the Stormwater Pathway at Upland Sites.*” <http://www.deq.state.or.us/lq/cu/stmwtrguidance.htm>.

DEQ and USEPA. “*Portland Harbor Joint Source Control Strategy.*” 2005.

FIGURES



REFERENCED FROM : GOOGLE EARTH

LAMPROS PROPERTIES
9040 NORTH BURGARD WAY
PORTLAND, OREGON

Report DRAFT SOURCE CONTROL EVALUATION
REPORT

Drawing SITE LOCATION MAP

Date AUGUST 2015

File Name Draft SCE

Scale AS SHOWN

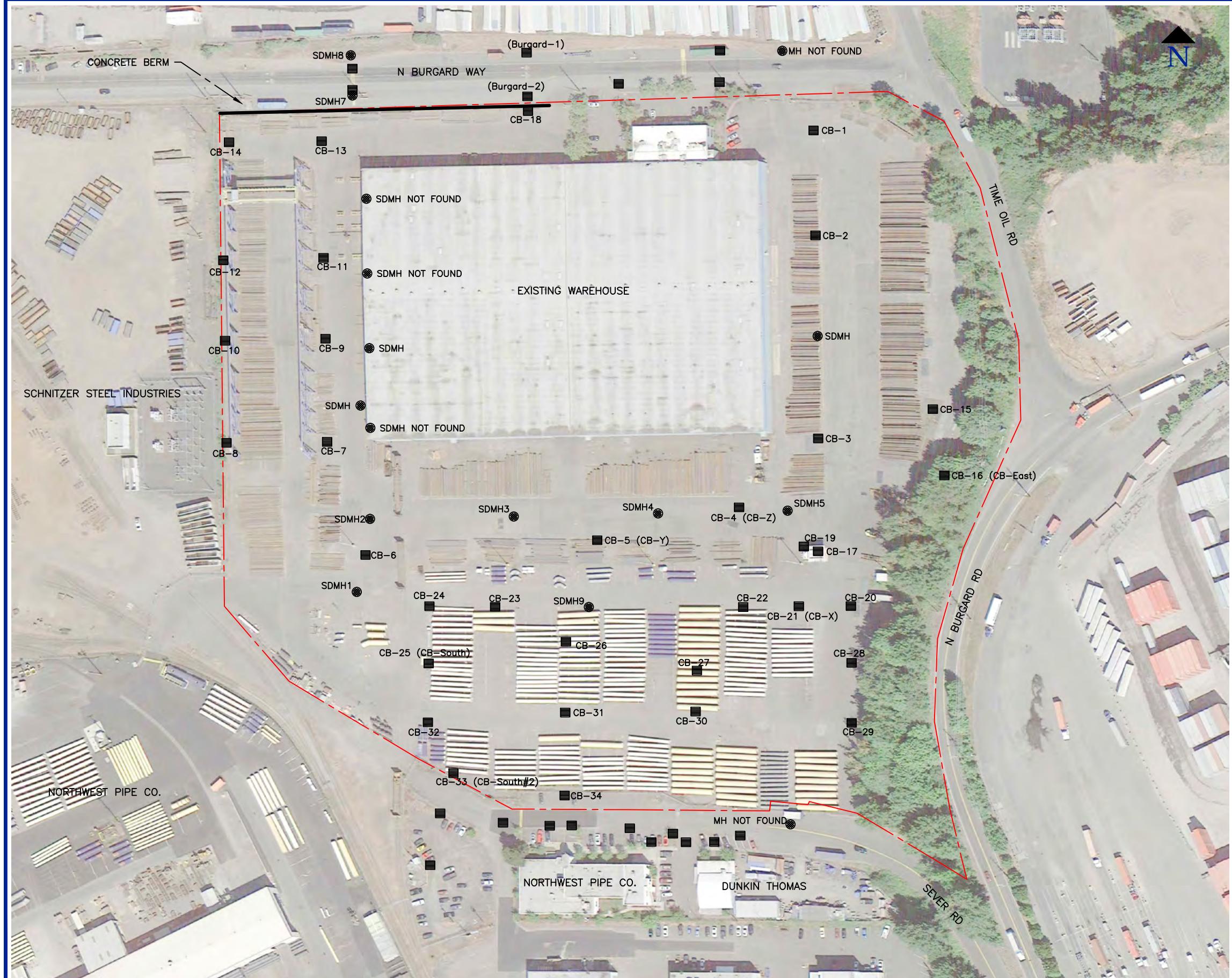
Project No. 108.00895.00002

Fig. No.

1

0 1 mile





NOTES
AERIAL IMAGE PROVIDED BY GOOGLE EARTH, 2012
CATCH BASIN AND MANHOLE LOCATIONS FROM NOVEMBER 2010 SITE MAP FOR STORM SYSTEM PREPARED BY TERRA HYDR FOR EVRAZ OREGON STEEL AND AUGUST 25, 2015 SITE VISIT
CATCH BASIN NUMBERS DESIGNATED FOR THIS REPORT AND NAMES IN PARENTHESES ARE FORMER SAMPLE NAMES FROM PREVIOUS SAMPLING EVENTS

LEGEND

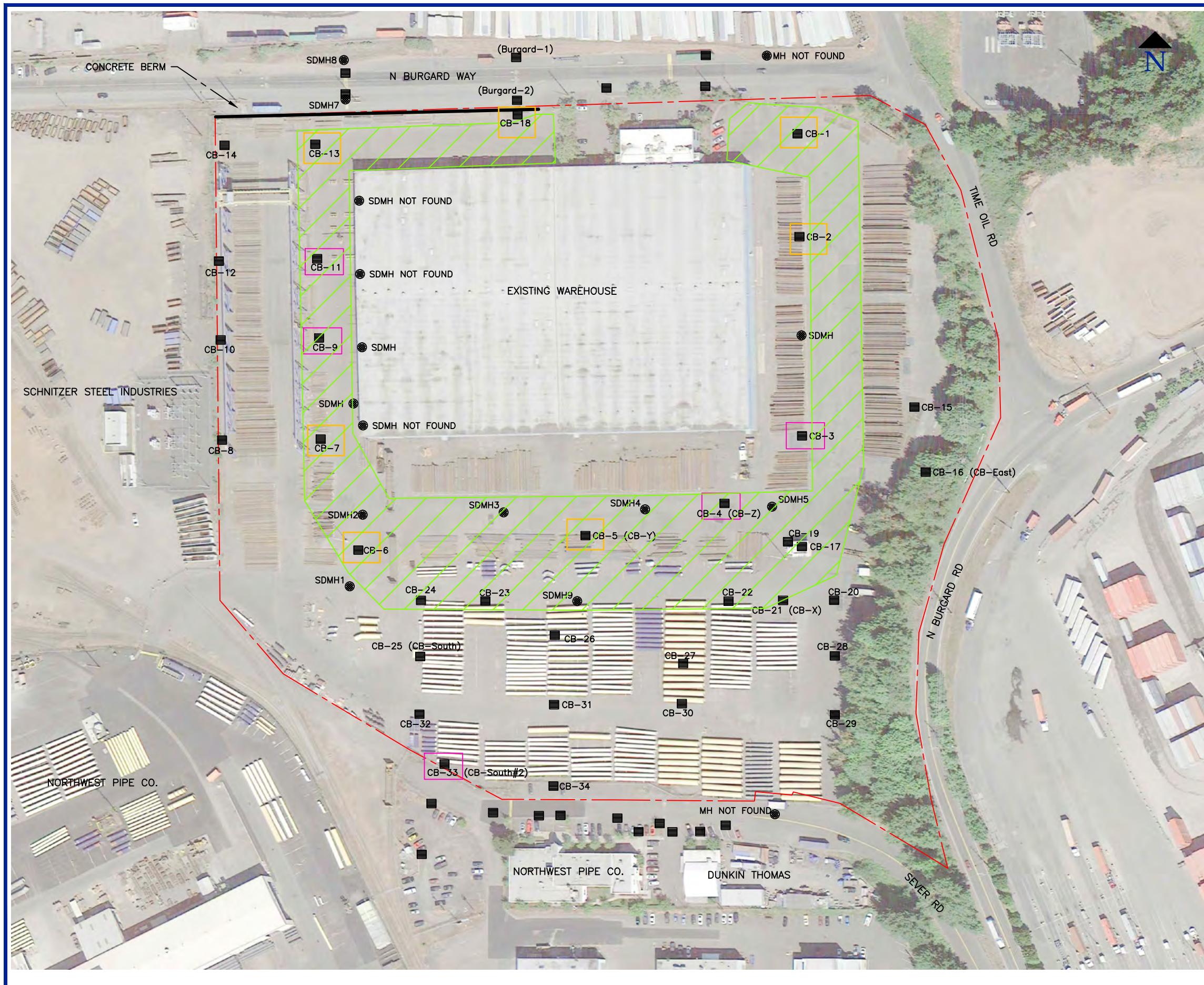
- APPROXIMATE PROPERTY BOUNDARY
- CATCH BASIN
- MANHOLE

LAMPROS PROPERTIES 9040 NORTH BURGARD WAY PORTLAND, OREGON

Report DRAFT SOURCE CONTROL EVALUATION REPORT

Drawing SITE PLAN

Date AUGUST 2015	Scale AS SHOWN	Fig. No. 2
File Name Draft SCE	Project No. 108.00895.00002	



NOTES
AERIAL IMAGE PROVIDED BY GOOGLE EARTH, 2012
CATCH BASIN AND MANHOLE LOCATIONS FROM NOVEMBER 2010 SITE MAP FOR
STORM SYSTEM PREPARED BY TERRA HYDR FOR EVRAZ OREGON STEEL AND
AUGUST 25, 2015 SITE VISIT

LEGEND

- The legend includes the following entries:

 - Red dashed line: APPROXIMATE PROPERTY BOUNDARY
 - Black square: CATCH BASIN
 - Black circle: MANHOLE
 - Green dashed line: STORM DRAIN LINE
 - Yellow rectangle: PROPOSED CLEANWAY FILTER LOCATION
 - Pink rectangle: EXISTING CLEANWAY FILTER LOCATION
 - Green rectangle with diagonal lines: APPROXIMATE AREAS OF TARGETED VACUUM SWEEPING AND AS-NEEDED PRESSURE WASHING

LAMPROS PROPERTIES
9040 NORTH BURGARD WAY
PORTLAND, OREGON

Report

DRAFT SOURCE CONTROL EVALUATION REPORT

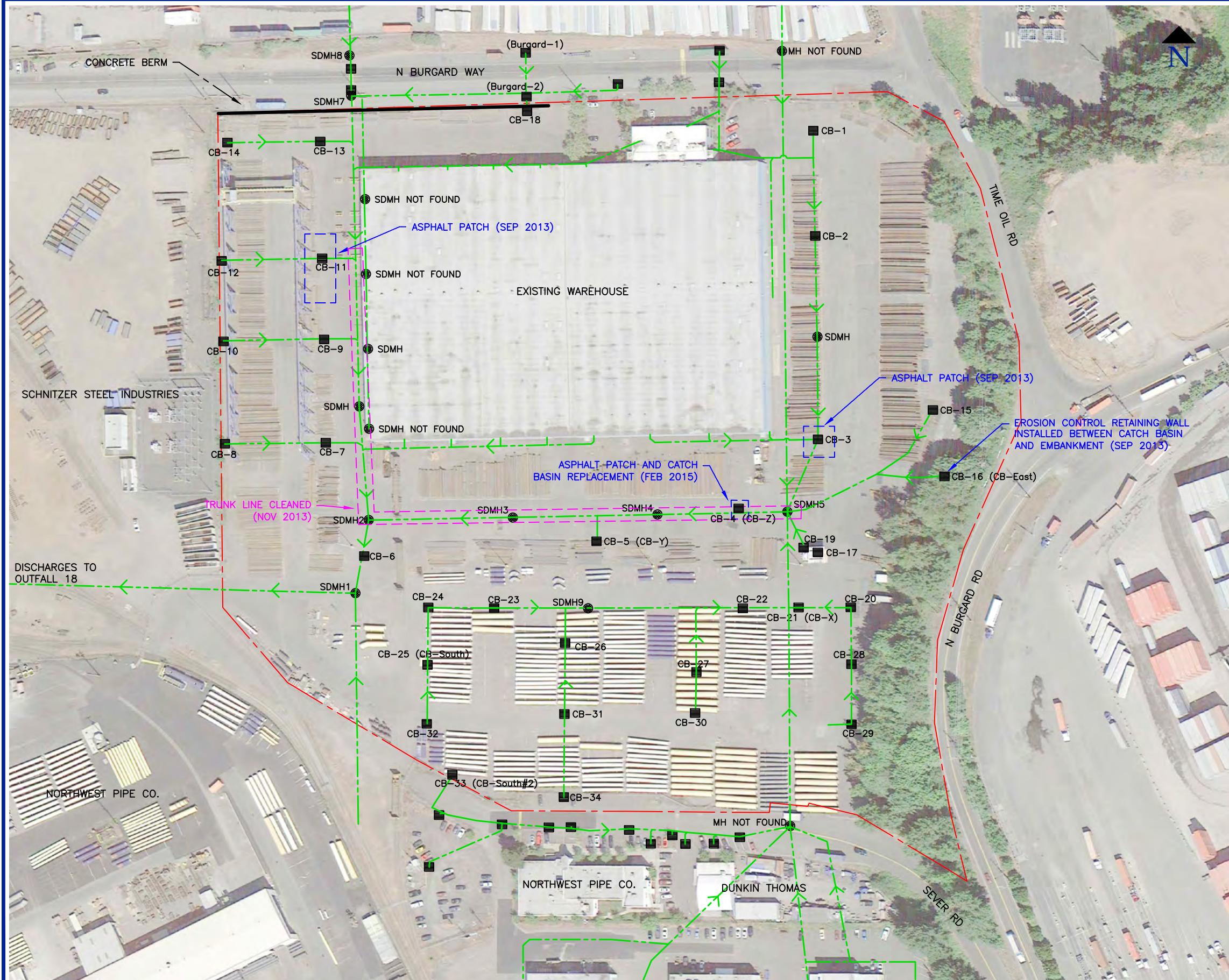
Drawing

LOCATIONS OF BMP IMPLEMENTATION

Date AUGUST 2015	Scale AS SHOWN	Fig. No.
File Name Draft SCE	Project No. 108.00895.00002	

0.





NOTES
AERIAL IMAGE PROVIDED BY GOOGLE EARTH, 2012
CATCH BASIN AND MANHOLE LOCATIONS FROM NOVEMBER 2010 SITE MAP FOR STORM SYSTEM PREPARED BY TERRA HYDR FOR EVRAZ OREGON STEEL AND AUGUST 25, 2015 SITE VISIT
PHOTOGRAPHS OF SCM IMPLEMENTATION INCLUDED ON PHOTO SHEETS 1 AND 2

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- CATCH BASIN
- MANHOLE
- - - STORM DRAIN LINE

LAMPROS PROPERTIES 9040 NORTH BURGARD WAY PORTLAND, OREGON

Report DRAFT SOURCE CONTROL EVALUATION REPORT

Drawing LOCATIONS OF SCM IMPLEMENTATION

Date AUGUST 2015	Scale AS SHOWN	Fig. No.
File Name Draft SCE	Project No. 108.00895.00002	5

SLR



Erosion Control Measures installed at CB-16 (CB-East)



New catch basin and asphalt paving at CB-4 (CB-Z)

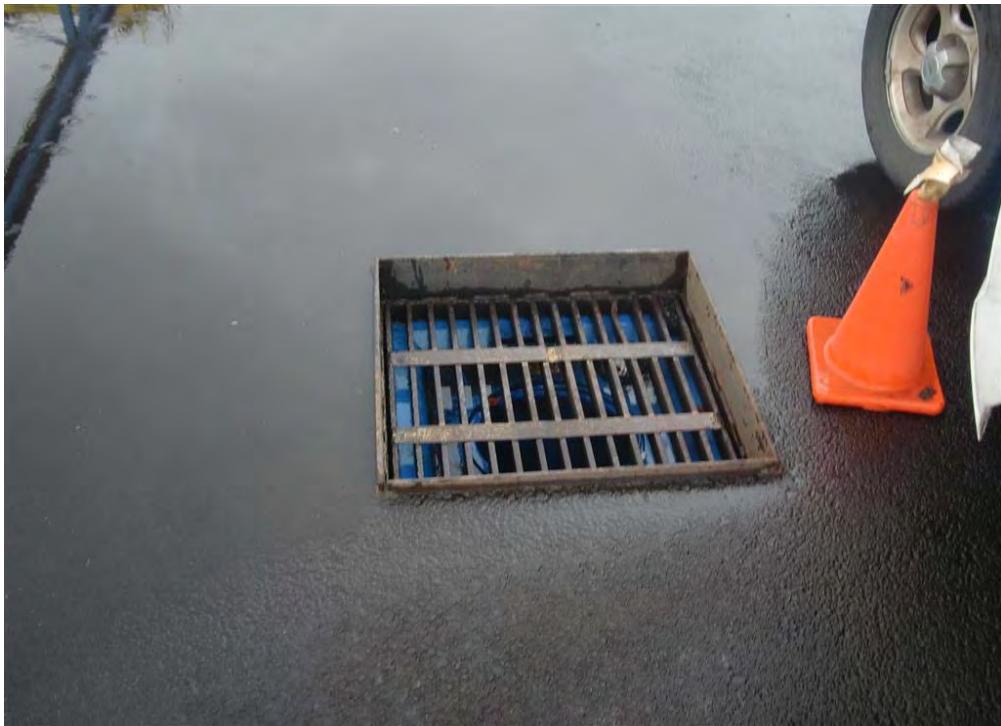
Site Photographs
May 2014 and May 2015

Photo Sheet 1
Lampros Properties
Draft Source Control Evaluation Report





Asphalt pavement around CB-3 installed Sep 2013



Asphalt pavement around CB-11 installed Sep 2013

Site Photographs
May 2015

Photo Sheet 2
Lampros Properties
Draft Source Control Evaluation Report



TABLES

Table 1: Summary of Stormwater Sampling Events
 Source Control Evaluation Report
 Lampros Properties
 9040 N. Burgard Way
 Portland, Oregon

Sample Date	Catch Basins Sampled	Parameters Analyzed
6/7/2012	CB-3, CB-East	Metals, PCBs, Phthalate Esters, PAHs, TPH GRO, TPH-DRO, TPH-RRO, TOC, TSS
6/8/2012	CB-11	Metals, PCBs, Phthalate Esters, PAHs, TPH GRO, TPH-DRO, TPH-RRO, TOC, TSS
10/30/2012	CB-11, CB-East, CB-3	Metals, PCBs, Phthalate Esters, PAHs, TPH GRO, TPH-DRO, TPH-RRO, TOC, TSS
3/6/2013	CB-11, CB-East, CB-3	Metals, PCBs, Phthalate Esters, PAHs, TPH GRO, TPH-DRO, TPH-RRO, TOC, TSS
12/20/2013	CB-11, CB-3	Metals, PCBs, Phthalate Esters, PAHs, TPH GRO, TPH-DRO, TPH-RRO, TOC, TSS
5/8/2014	CB-3, CB-11, CB-South	Metals, PCBs, Phthalate Esters, PAHs, TPH-GRO, TPH-Diesel, TPH-Lube Oil, TOC, TSS
10/15/2014	CB-52-Pre, CB-52-Post, CB-3-Pre, CB-3-Post	Metals, PCBs, Phthalate Esters, PAHs, TPH-GRO, TPH-Diesel, TPH-Lube Oil, TOC, TSS
10/15/2014	CB-9, CB-5, CB-1-Pre, CB-1-Post	TSS
2/5/2015	CB-52-Pre, CB-52-Post, CB-11-Pre, CB-11-Post, CB-3-Pre, CB-3-Post	Metals, PCBs, Phthalate Esters, PAHs, TPH-GRO, TPH-Diesel, TPH-Lube Oil, TOC, TSS
2/5/2015	CB-X, CB-South, CB-9-Pre, CB-9-Post, CB-18, CB-13, CB-5, CB-Z, CB-2	TSS
5/12/2015	CB-13, CB-Z-Pre, CB-Z-Post, CB-3-Pre, CB-3-Post, CB-9-Pre, CB-9-Post, CB-11-Pre, CB-11-Post, CB-5-2, Burgard-1, Burgard-2	TSS

Table 2. Stormwater Analytical Results
 Source Control Evaluation Report
 Lampros Properties
 9040 N. Burgard Way
 Portland, Oregon

Sample Location	SLV for Portland Harbor ¹	Portland Harbor PRG - Protected Water Uses ²	Portland Harbor PRG - Direct Contact/Ingestion ²	Analytical Results (mg/L)																						
				6/7/2012		6/8/2012		10/30/2012			3/6/2013			12/20/2013			5/8/2014			10/15/2014						
				CB-3	CB-East	CB-11*	CB-11	CB-East	CB-3	CB-East	CB-11	CB-3	CB-3	CB-11*	CB-South*	CB-52*	CB-3*	Pre	Post	Pre	Post	Pre	Post			
TSS (mg/L)	--	--	--	40	110	267	36	260	38	430	210 J3	210	230	420	119	191	44	17	26	172	100	542	573	310	141	
Total Petroleum Hydrocarbons																										
GRO	--	--	--	57 J	<33	<100	<100	<100	J	<32	<32	<32	<32	<32	<100	<100	<100	170	<100	<100	<100	--	--	--	--	
DRO	--	--	--	190	130	1400	300	370	230	<33	150	160	810	490	844	1960 A1,K	276 A1,K	558 K	615 K	1090 K	979 K	--	--	--	--	
RRO	--	--	--	180 J	150 J	4860	680	740 J3	620 J3	<82	640	870	750	850	1730	5410	577	2180	2420	4020	3830	--	--	--	--	
TOC	--	--	--	12000	17000	4840	2600	4600	3300	8200	4300	3500	4500	3700	7840	2610	5610	1700	1050	8290	9510	--	--	--	--	
PCBs Aroclors																										
Aroclor 1016	0.96	--	--	<0.1	<0.1	<0.019	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.189	<0.0191	<0.0183	<0.0185	<0.0182	<0.0226	--	--	--	--		
Aroclor 1221	0.034	--	--	<0.073	<0.073	<0.019	<0.073	<0.073	<0.073	<0.073	<0.073	<0.073	<0.073	<0.073	<0.019	<0.0189	<0.0191	<0.0183	<0.0185	<0.0182	<0.0226	--	--	--	--	
Aroclor 1232	0.034	--	--	<0.042	<0.042	<0.019	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.019	<0.0189	<0.0191	<0.0183	<0.0185	<0.0182	<0.0226	--	--	--	--
Aroclor 1242	0.034	--	--	<0.047	<0.047	<0.019	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.019	<0.0189	<0.0191	<0.0183	<0.0185	<0.0182	<0.0226	--	--	--	--	
Aroclor 1248	0.034	--	--	<0.086	<0.086	0.21	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.019	<0.0191	<0.0183	<0.0185	<0.0182	<0.0226	--	--	--	--		
Aroclor 1254	0.033	--	--	<0.047	<0.047	<0.019	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.019	<0.0189	<0.0183	<0.0185	<0.0182	<0.0226	--	--	--	--		
Aroclor 1260	0.034	--	--	<0.12	<0.12	<0.019	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.019	<0.0189	<0.0191	<0.0183	<0.0185	<0.0182	<0.0226	--	--	--	--	
Aroclor 1262	--	--	--	--	--	<0.019	--	--	--	--	--	--	--	--	<0.019	<0.0189	<0.0191	<0.0183	<0.0185	<0.0182	<0.0226	--	--	--	--	
Aroclor 1268	--	--	--	--	--	<0.019	--	--	--	--	--	--	--	--	<0.019	<0.0189	<0.0191	<0.0183	<0.0185	<0.0182	<0.0226	--	--	--	--	
Total PCBs	0.000064	0.000006	0.2	ND	ND	0.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	
PAHs																										
Anthracene	0.2	--	--	0.011 J	0.035 J	<0.048	<0.0076	<0.076 O	<0.076 O	<0.076	<0.15 O	<0.15 O	<0.076	<0.076	<0.0494	0.129	<0.049	<0.048	<0.0495	<0.0493	<0.0472	--	--	--	--	
Acenaphthene	0.2	--	--	0.013 J	0.016 J	<0.048	<0.0082	<0.082 O	<0.082 O	<0.082	<0.16 O	<0.16 O	<0.082	<0.082	<0.0494	0.336	<0.049	<0.048	<0.0495	<0.0493	<0.0472	--	--	--	--	
Acenaphthylene	0.2	--	--	<0.0068	0.017 J	<0.048	<0.0068	<0.068 O	<0.068 O	<0.068	<0.14 O	<0.14 O	<0.068	<0.068	<0.0494	0.0662	<0.049	<0.048	<0.0495	<0.0493	<0.0472	--	--	--	--	
Benz(a)anthracene	0.018	0.0012	0.027	0.023 J	0.031 J	0.393	<0.012	<0.12 O	<0.12 O	0.14 J	<0.24 O	<0.24 O	0.17 J	0.14 J	<0.0494	0.487	0.0867	0.0795	0.0893	<0.0493	<0.0472	--	--	--	--	
Benz(a)pyrene	0.018	0.00012	0.014	0.026 J	0.032 J	0.134	<0.012	<0.12 O	<0.12 O	<0.23 O	<0.23 O	<0.12	<0.12	<0.12	<0.0494	0.696	0.103	0.0708	0.0911	0.063	0.0700	--	--	--	--	
Benz(b)fluoranthene	0.018	0.0012	--	0.05	0.057	0.24	<0.014	<0.14 O	<0.14 O	<0.28 O	<0.28 O	<0.14	<0.14	<0.0524	1.11	0.124	0.147	0.181	0.0992	0.111	--	--	--	--		
Benz(g,h,i)perylene	0.2	--	--	0.039 J	0.068	0.336	<0.011	<0.11 O	<0.11 O	0.12 J	<0.23 O	<0.23 O	0.14 J	0.15 J	0.109	1	0.172	0.0864	0.0995	0.107	0.109	--	--	--	--	
Benz(k)fluoranthene	0.018	0.0013	--	0.015 J	0.018 J	0.067	<0.014	<0.14 O	<0.14 O	<0.14																

le 2. Stormwater Analytical Results
ource Control Evaluation Report
Lampros Properties
9040 N. Burgard Way
Portland, Oregon

Table 3: Sediment Analytical Results
 Source Control Evaluation Report
 Lampros Properties
 9040 N. Burgard Way
 Portland, Oregon

Sample Location	SLV for Portland Harbor ¹	Portland Harbor PRG - Ingestion/Direction Contact ²	Portland Harbor PRG - Direct Contact / Ingestion ²	Portland Harbor PRG - Migration of Contaminants ²				
					CB-7, 9, 11	CB-6	Solids-1	Solids-2
Total Petroleum Hydrocarbons								
GRO					3.57	A2	--	ND
DRO					0.69	A1	1.67	A1
TOC					17,900		46,300	8.19
PCBs Aroclors								
Aroclor 1016	530	--	--	--	<0.504	<0.600	<0.333	<0.333
Aroclor 1221	--	--	--	--	<0.504	<0.600	<0.333	<0.333
Aroclor 1232	--	--	--	--	<0.504	<0.600	<0.333	<0.333
Aroclor 1242	--	--	--	--	<0.504	<0.600	<0.333	<0.333
Aroclor 1248	1,500	--	--	--	<0.504	<0.600	<0.333	<0.333
Aroclor 1254	300	--	--	--	121	113	<0.333	<0.333
Aroclor 1260	200	--	--	--	110	101	417	30.7
Aroclor 1262	--	--	--	--	<0.504	<0.600	<0.333	<0.333
Aroclor 1268	--	--	--	--	<0.504	<0.600	<0.333	<0.333
Total PCBs	0.39	--	--	--	231	214	417	30.7
PAHs								
Anthracene	845		--	--	307	629	264	42.6
Acenaphthene	300	--	--	--	287	183	76.7	24.5
Acenaphthylene	200	--	--	--	30	93.7	90.7	16.2
Benzo(a)anthracene	1,050	--	--	--	1,160	1,310	543	68.7
Benzo(a)pyrene	1,450	--	--	--	1,320	826	659	95
Benzo(b)fluoranthene	--	--	--	--	2,190	1,380	779	118
Benzo(g,h,i)perylene	300	--	--	--	1,010	786	634	75.9
Benzo(k)fluoranthene	13,000	--	--	--	408	370	179	37.4
Chrysene	1,290	--	--	--	1,660	1,310	803	102
Dibenz(a,h)anthracene	1,300	--	--	--	303	166	166	21.1
Fluoranthene	2,230	--	--	--	2,360	3,590	1,800	171
Fluorene	536	--	--	--	194	360	62.7	22.1
Indeno(1,2,3-cd)pyrene	100	--	--	--	826	507	483	59.3
Naphthalene	561	--	--	--	119	151	9.33	<13.3
Phenanthrene	1,170	--	--	--	1,470	2,470	731	170
Pyrene	1,520	--	--	--	1,890	2,780	1,850	282
1-Methylnaphthalene	--	--	--	--	--	--	--	--
2-Methylnaphthalene	200	--	--	--	--	--	<6.67	<13.3
2-Chloronaphthalene	--	--	--	--	--	--	--	--
Total PAHs	--	--	--	--	15,534	16,912	9,130	1,306
Metals								
Aluminum (pH 6.5 - 9.0)	--	--	--	--	8,640,000	10,400,000	6,840,000	4,880,000
Antimony	64,000	--	--	--	2,550	1,910	4,430	<463 Q
Arsenic	7,000	3,000	--	3,000	18,500	12,300	3,940	1,390
Cadmium	1,000	--	5,000	5,000	1,060	468	2,380	247
Chromium, total	111,000	--	--	--	91,400	71,300	7,200	29,800
Copper	149,000	--	149,000	149,000	208,000	128,000	107,000	40,600
Lead	17,000	--	128,000	128,000	87,600	74,200	259,000	14,800
Manganese	1,100,000	--	--	--	2,090,000	761,000	633,000	579,000
Mercury	70	--	1,100	1,100	31	39.4	206	32.1
Nickel	49,600	--	--	--	81,900	36,400	32,400	28,500
Silver	5,000	--	--	--	280	247	310	74.1
Zinc	459,000	--	459,000	459,000	456,000	727,000	1,210,000	134,000
Phthalate Esters								
Total Phthalates	--	--	--	--	--	--	--	--
Bis (2-ethylhexyl) phthalate	330	--	--	--	3,310	1,650	589	126
Benzylbutyl phthalate	--	--	--	--	--	--	--	--
Diethyl phthalate	600	--	--	--	<101	ND	<33.3	<33.3
Dimethyl phthalate	--	--	--	--	<101	ND	<33.3	<33.3
Di-n-butyl phthalate	60	--	--	--	131	120	41.7	<33.3
Di-n-octyl phthalate	--	--	--	--	<101	165	<33.3	<33.3

Notes:

Unless otherwise noted, all results are in micrograms per kilogram

1 - Screening Level Value per Portland Harbor Joint Source Control Strategy Table 3.1 (July 16, 2007).

2 - Draft EPA Preliminary Remediation Goals as provided by DEQ in August 6, 2015 by email, Table 2.2-1

bold - indicates a value detected above the reporting limit

indicates value greater than SLV

indicates value greater than Ingestion/ Direction Contact PRG (RAO 1)

indicates value greater than Direct Contact / Ingestion PRG (RAO 3)

indicates value greater than Migration of Contaminants PRG

APPENDIX A

STORMWATER SAMPLING WORK PLAN



August 28, 2015

Jim Orr, R.G.
NWR Cleanup Program
Remedial Action Project Manager
Oregon Department of Environmental Quality
2020 SW 4th Avenue, Suite 400
Portland, Oregon 97201-4987

**Re: Performance Monitoring Work Plan
Lampros Properties, 9040 N Burgard Way, Portland, Oregon**

Dear Mr. Orr,

This Performance Monitoring Work Plan (Work Plan) has been prepared as part of the Draft Source Control Evaluation and in response to DEQ's request made in a letter to Lampros Properties on August 6, 2015 to develop a work plan for additional stormwater sampling and effectiveness monitoring following the installation of Source Control Measures (SCMs) and Best Management Practices (BMPs). This Work Plan presents stormwater sampling locations, sampling methods, laboratory analysis methods, and laboratory analysis detection limits for performance monitoring of implemented SCMs and BMPs at the Site.

SITE DESCRIPTION AND STORMWATER CONVEYANCE

The Site is defined as the property located at 9040 N Burgard Way in Portland, Oregon (Figure 1) in the Burgard Industrial Park. The Site is generally flat with an upward slope present on the eastern property boundary. The Site is approximately 25.2 acres and developed with one building totaling approximately 248,829 square feet. The remainder of the Site is asphalt-paved with the exception of the eastern property boundary, which consists of a vegetated hillside. The Site is located approximately 600 feet east of the Schnitzer International Terminals Slip (IT Slip) and approximately 2,800 feet from the western edge of the Willamette River. A site plan is presented as Figure 2.

Stormwater from the Site enters the conveyance system through downspouts and catch basins. The conveyance system is shared with several other surrounding properties including Portland Container Corporation to the north and Northwest Pipe Co., Dunkin Thomas, and Boydston Metal Works to the south. In addition, stormwater from Burgard Way, Burgard Road, and Sever Road immediately adjacent to the north, east, and south, is conveyed through the stormwater system present beneath the Site. Stormwater in this conveyance system is discharged to Outfall 18 (WR-123) located at the southeast end of the International Terminal Slip. Figure 3 shows the current stormwater conveyance system, as well as catch basins present at the Site.

SCMs and BMPs implemented at the Site are described in the Draft Source Control Evaluation submitted to DEQ.

STORMWATER SAMPLING

Stormwater at the Site commingles with surrounding sites in the Burgard Industrial Park before discharging to Outfall 18 at the east end of IT Slip as shown on Figure 3. To provide a representative sample of stormwater “discharges” associated with the Site, stormwater sampling will occur at select discrete catch basins over a storm event. There are no point discharges that are exclusively from the Site. Analytical results from these samples will be averaged to obtain a mean concentration representative of stormwater at the Site. Two stormwater samples will be collected at each location; a sample will be collected as stormwater is flowing into the catch basin (pre-filter sample) and a sample will be collected from the sampling port on the catch basin filtration inserts (post-filter sample). Stormwater samples will be analyzed for the following:

Analysis	Pre-filter	Post-filter
PAHs		X
Metals	X	X
PCBs		X
TPH		X
TSS	X	X
TOC		X
Phthalate Esters		X

Sampling locations were chosen to be representative of stormwater present on the Site and are generally spread out throughout the Site. Stormwater sampling locations are shown on Figure 3. These locations are:

- CB-3, located on the southeast corner of the building in an area of truck and forklift traffic
- CB-6, located south of the southwest corner of the building
- CB-11, located west of the building in an area of forklift traffic
- CB-South2 (CB-S2), located along the southwestern border of the Site in an area of low traffic

Stormwater samples will be collected during four separate storm events, ideally one event per quarter. Qualifying storm events will be those where there is an antecedent dry period of at least 24 hours, a minimum predicted rainfall volume greater than 0.2 inches, and the expected duration of the storm event is at least three hours (DEQ, 2010). The stormwater will be collected directly into laboratory-provided containers, labeled, and stored on ice pending delivery to the analytical laboratories.

Stormwater samples will be analyzed for by Specialty Analytical in Clackamas, Oregon. Proposed laboratory analysis methods and analysis detection limits are presented on Table 1.

August 28, 2015
Jim Orr, R.G.
Page 3

REPORTING

Within 30 days of a sampling event, a report summarizing the sampling and results will be submitted to DEQ. This report will include:

- A summary of sampling activities and any deviation from the sampling plan
- A hydrograph of the storm event with the sampling time indicated
- Laboratory reports
- Analytical results compared to SLVs in a summary table
- A discussion of analytical results

Lampros Properties is prepared to implement the proposed performance monitoring activities and conduct stormwater sampling once approval of this Work Plan is received from the DEQ.

Please let us know if you have any questions.

Sincerely,
SLR International Corporation



R. Scott Miller, P.E.
Managing Principal

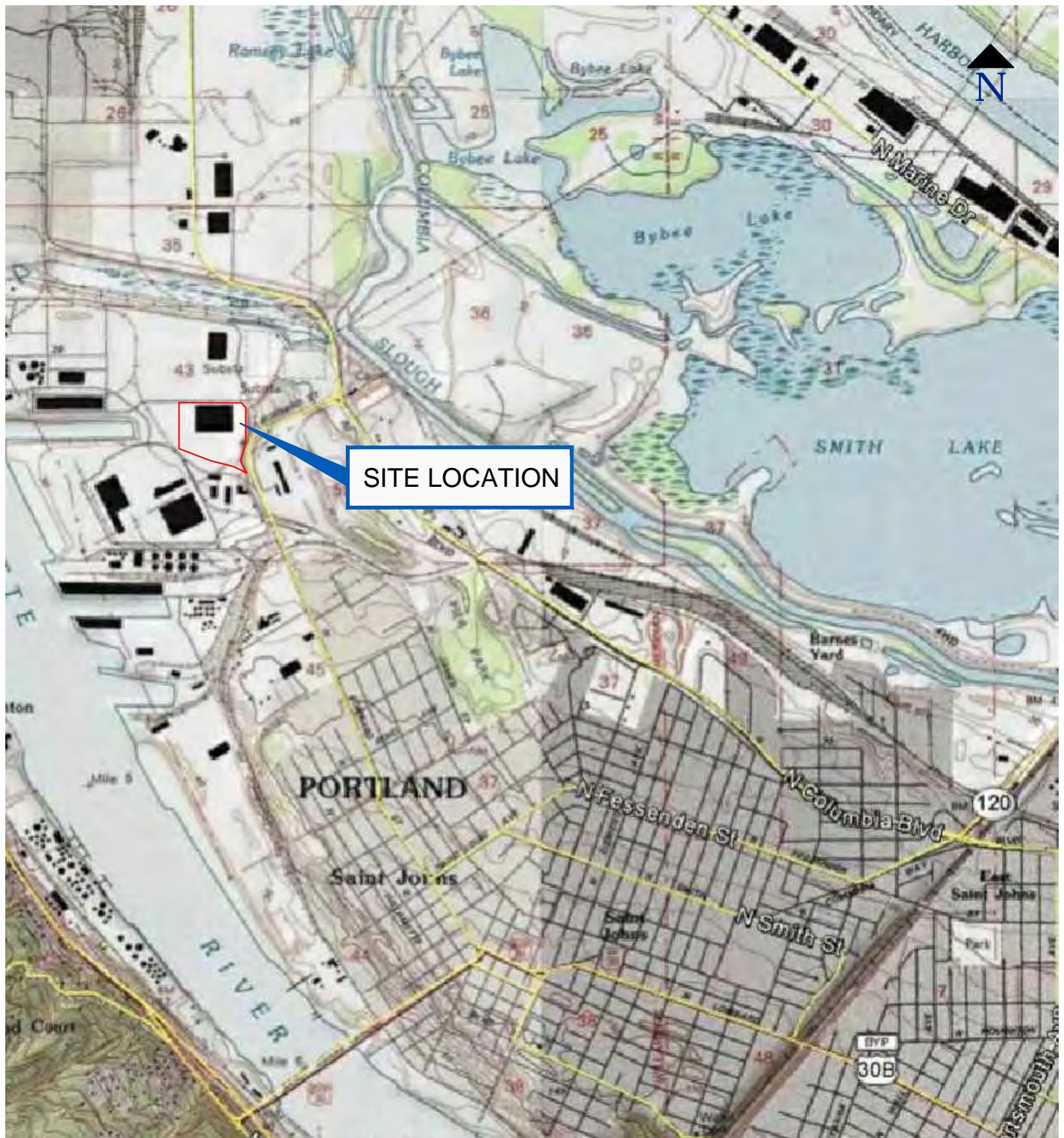


Raechel Frogner
Project Manager

cc Marcus Lampros
 Drew Gilpin

Enc Figures
 Table

FIGURES



REFERENCED FROM : GOOGLE EARTH

LAMPROS PROPERTIES
9040 NORTH BURGARD WAY
PORTLAND, OREGON

Report

PERFORMANCE MONITORING WORK PLAN

Drawing

SITE LOCATION MAP

Date AUGUST 2015

Scale AS SHOWN

File Name WORK PLAN

Project No. 108.00895.00002

Fig. No.

1

0 1 mile

SLR



NOTES
AERIAL IMAGE PROVIDED BY GOOGLE EARTH, 2012
CATCH BASIN AND MANHOLE LOCATIONS FROM NOVEMBER 2010 SITE MAP FOR STORM SYSTEM PREPARED BY TERRA HYDR FOR EVRAZ OREGON STEEL AND AUGUST 25, 2015 SITE VISIT
CATCH BASIN NUMBERS DESIGNATED FOR THIS REPORT AND NAMES IN PARENTHESES ARE FORMER SAMPLE NAMES FROM PREVIOUS SAMPLING EVENTS

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- CATCH BASIN
- MANHOLE

LAMPROS PROPERTIES 9040 NORTH BURGARD WAY PORTLAND, OREGON

Report
PERFORMANCE MONITORING WORK PLAN

Drawing
SITE PLAN

Date	AUGUST 2015	Scale	AS SHOWN	Fig. No.	2
File Name	WORK PLAN	Project No.	108.00895.00002		



NOTES
AERIAL IMAGE PROVIDED BY GOOGLE EARTH, 2012
CATCH BASIN AND MANHOLE LOCATIONS FROM NOVEMBER 2010 SITE MAP FOR STORM SYSTEM PREPARED BY TERRA HYDR FOR EVRAZ OREGON STEEL AND AUGUST 25, 2015 SITE VISIT

LEGEND	
	APPROXIMATE PROPERTY BOUNDARY
■	CATCH BASIN
●	MANHOLE
□	PROPOSED STORMWATER SAMPLING LOCATION

LAMPROS PROPERTIES
9040 NORTH BURGARD WAY
PORTLAND, OREGON

Report
PERFORMANCE MONITORING WORK PLAN

Drawing
STORMWATER SAMPLING LOCATIONS

Date AUGUST 2015	Scale AS SHOWN	Fig. No. 3
File Name WORK PLAN	Project No. 108.00895.00002	

TABLES

Table 1: Laboratory Analysis Methods and Detection Limits

Performance Monitoring Work Plan

Lampros Properties

9040 N. Burgard Way

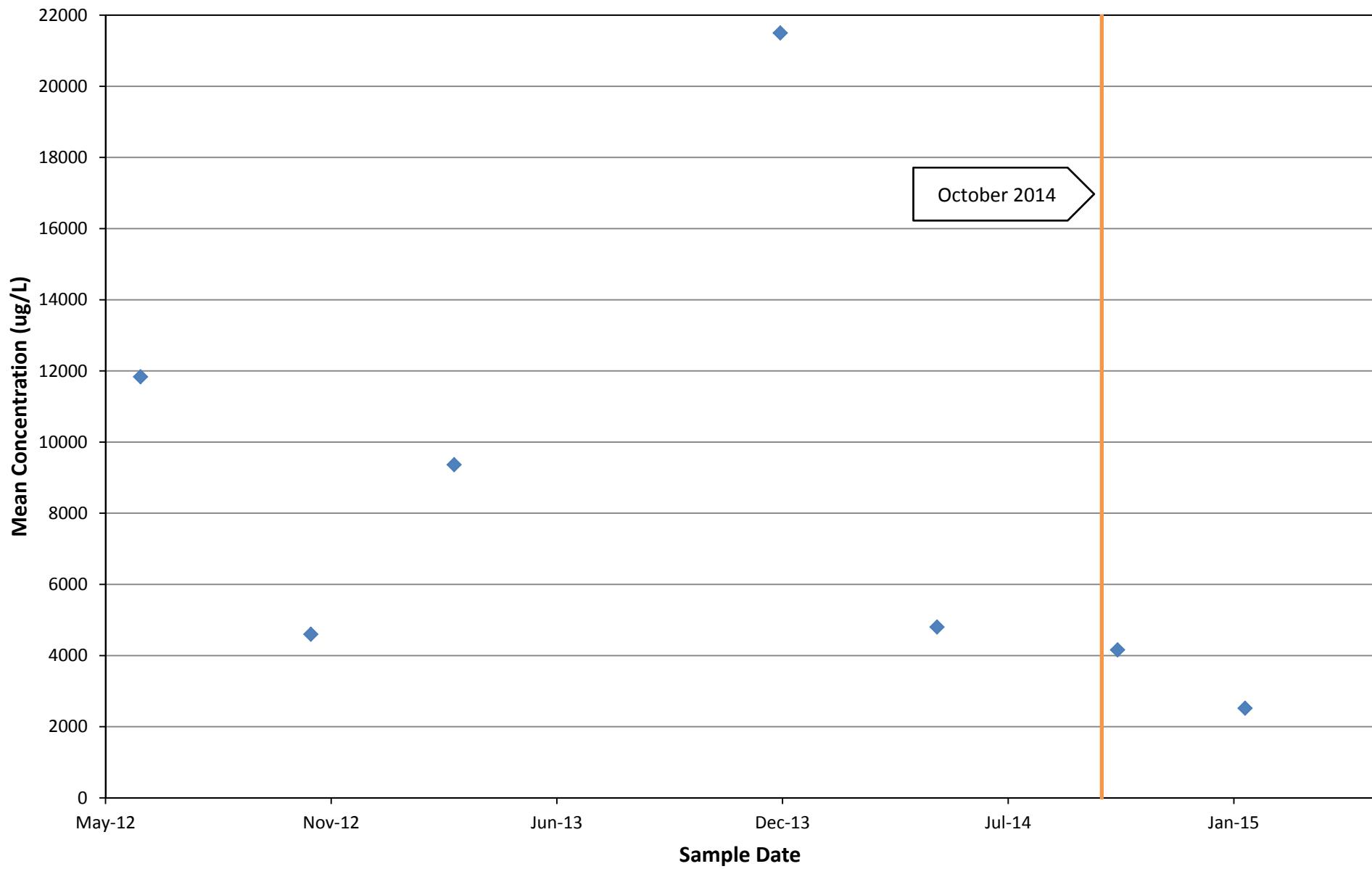
Portland, OR

Analytes	Units	Method	Laboratory Detection Limits	
			MDL	PQL
Total Suspended Solids (TSS)	mg/L	M2540 D	1.1	5
Total Metals				
Aluminum	µg/L	E200.7	17	50
Antimony	µg/L	E200.7	4	20
Arsenic	µg/L	E200.7	4	20
Cadmium	µg/L	E200.7	0.4	1
Chromium	µg/L	E200.7	2	5
Copper	µg/L	E200.7	4	10
Lead	µg/L	E200.7	7	20
Manganese	µg/L	E200.7	0.3	1
Nickel	µg/L	E200.7	1	5
Silver	µg/L	E200.7	2	10
Zinc	µg/L	E200.7	0.6	10
Mercury	µg/L	E245.2	0.016	0.1
Polychlorinated Biphenyls (PCBs)				
Aroclor 1016	µg/L	SW8082A	0.0039	0.02
Aroclor 1221	µg/L	SW8082A	0.0039	0.02
Aroclor 1232	µg/L	SW8082A	0.0039	0.02
Aroclor 1242	µg/L	SW8082A	0.0039	0.02
Aroclor 1248	µg/L	SW8082A	0.0039	0.02
Aroclor 1254	µg/L	SW8082A	0.0039	0.02
Aroclor 1260	µg/L	SW8082A	0.0039	0.02
Phthalates				
Dimethylphthalate	µg/L	SW8270D	0.277	1
Diethylphthalate	µg/L	SW8270D	0.309	1
Di-n-butylphthalate	µg/L	SW8270D	0.379	1
Butylbenzylphthalate	µg/L	SW8270D	0.168	1
Di-n-octylphthalate	µg/L	SW8270D	0.15	1
bis(2-Ethylhexyl)phthalate	µg/L	SW8270D	0.291	1
Polynuclear Aromatic Hydrocarbons (PAHs)				
2-Methylnaphthalene	µg/L	SW8270D	0.0104	0.05
Acenaphthene	µg/L	SW8270D	0.00814	0.05
Acenaphthylene	µg/L	SW8270D	0.00994	0.05
Anthracene	µg/L	SW8270D	0.0085	0.05
Benzo(a)anthracene	µg/L	SW8270D	0.00839	0.05
Benzo(a)pyrene	µg/L	SW8270D	0.00911	0.05
Benzo(b)fluoranthene	µg/L	SW8270D	0.00991	0.05
Benzo(g,h,i)perylene	µg/L	SW8270D	0.00963	0.05
Benzo(k)fluoranthene	µg/L	SW8270D	0.00775	0.05
Chrysene	µg/L	SW8270D	0.00913	0.05
Dibenz(a,h)anthracene	µg/L	SW8270D	0.00592	0.05
Fluoranthene	µg/L	SW8270D	0.00542	0.05
Fluorene	µg/L	SW8270D	0.00132	0.05
Indeno(1,2,3-cd)pyrene	µg/L	SW8270D	0.00704	0.05
Naphthalene	µg/L	SW8270D	0.0141	0.05
Phenanthrene	µg/L	SW8270D	0.00996	0.05
Pyrene	µg/L	SW8270D	0.00599	0.05
Total Petroleum Hydrocarbons (TPH)				
TPH - Gasoline Range	µg/L	NWTPH-Gx	10.8	100
TPH - Diesel Range	mg/L	NWTPH-Dx	0.033	0.08
TPH - Lube Oil Range	mg/L	NWTPH-Dx	0.052	0.2
Total Organic Carbon (TOC)	mg/L	M5310 B	0.089	1

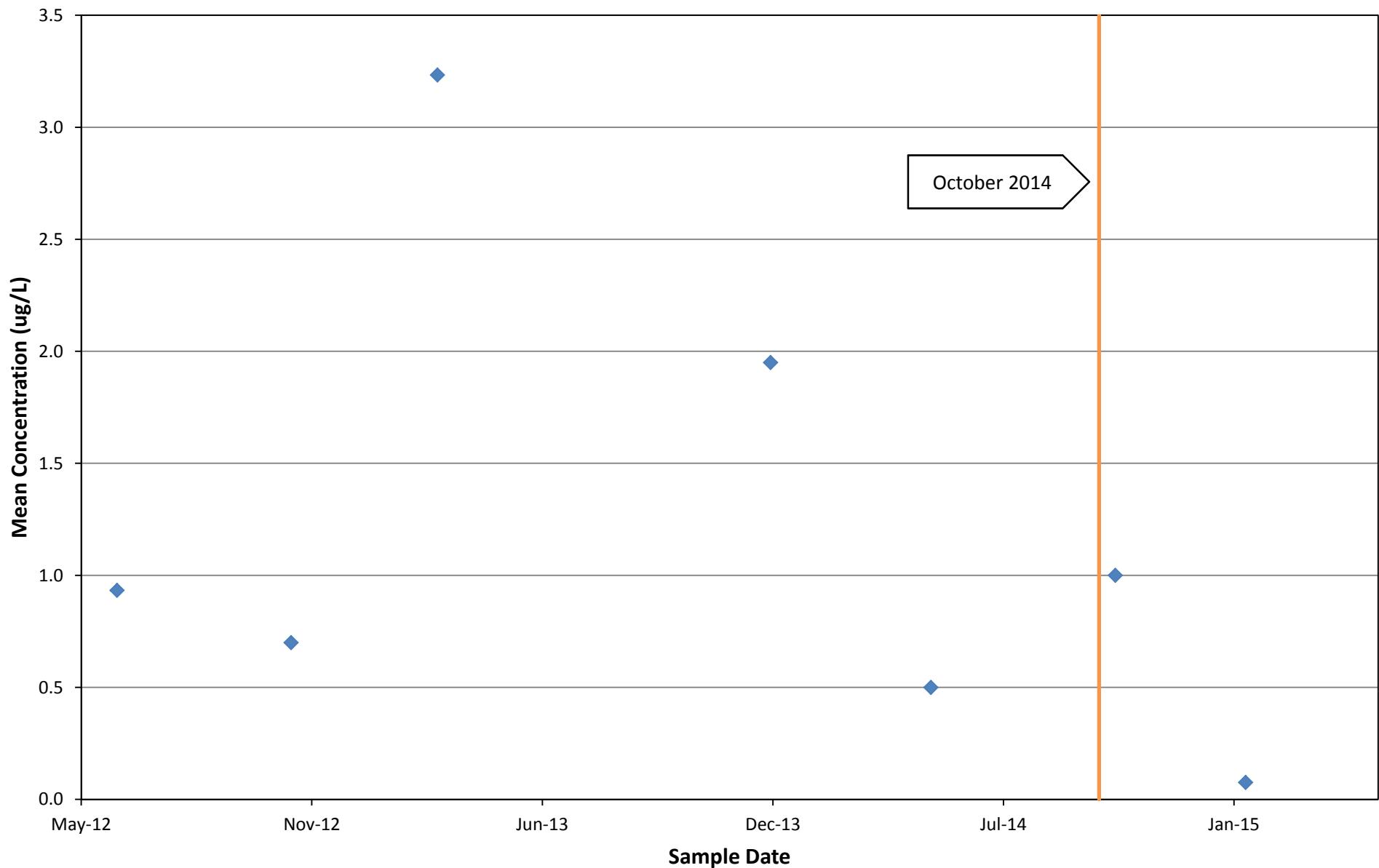
APPENDIX B

CHARTS OF AVERAGED COIs

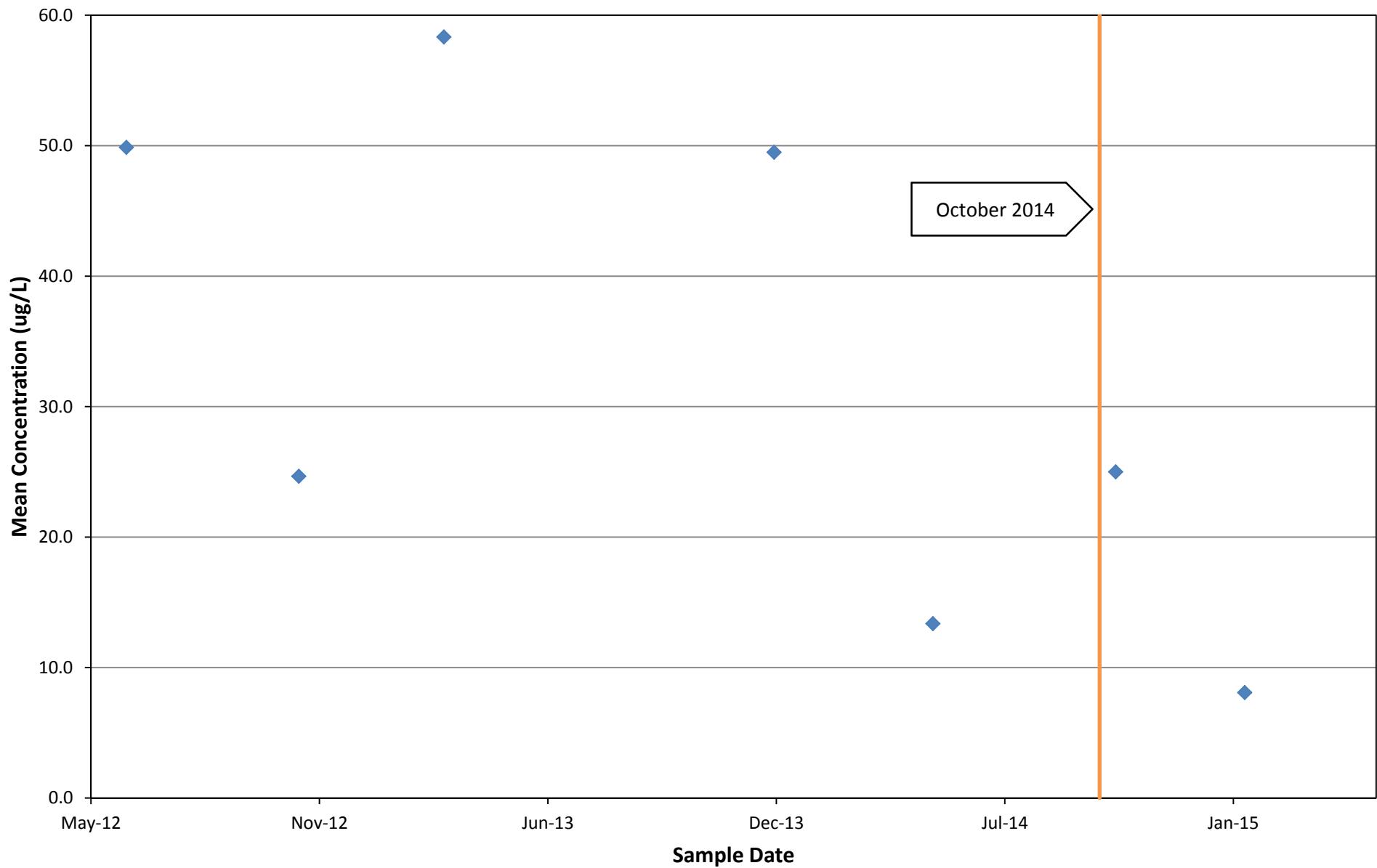
Aluminum



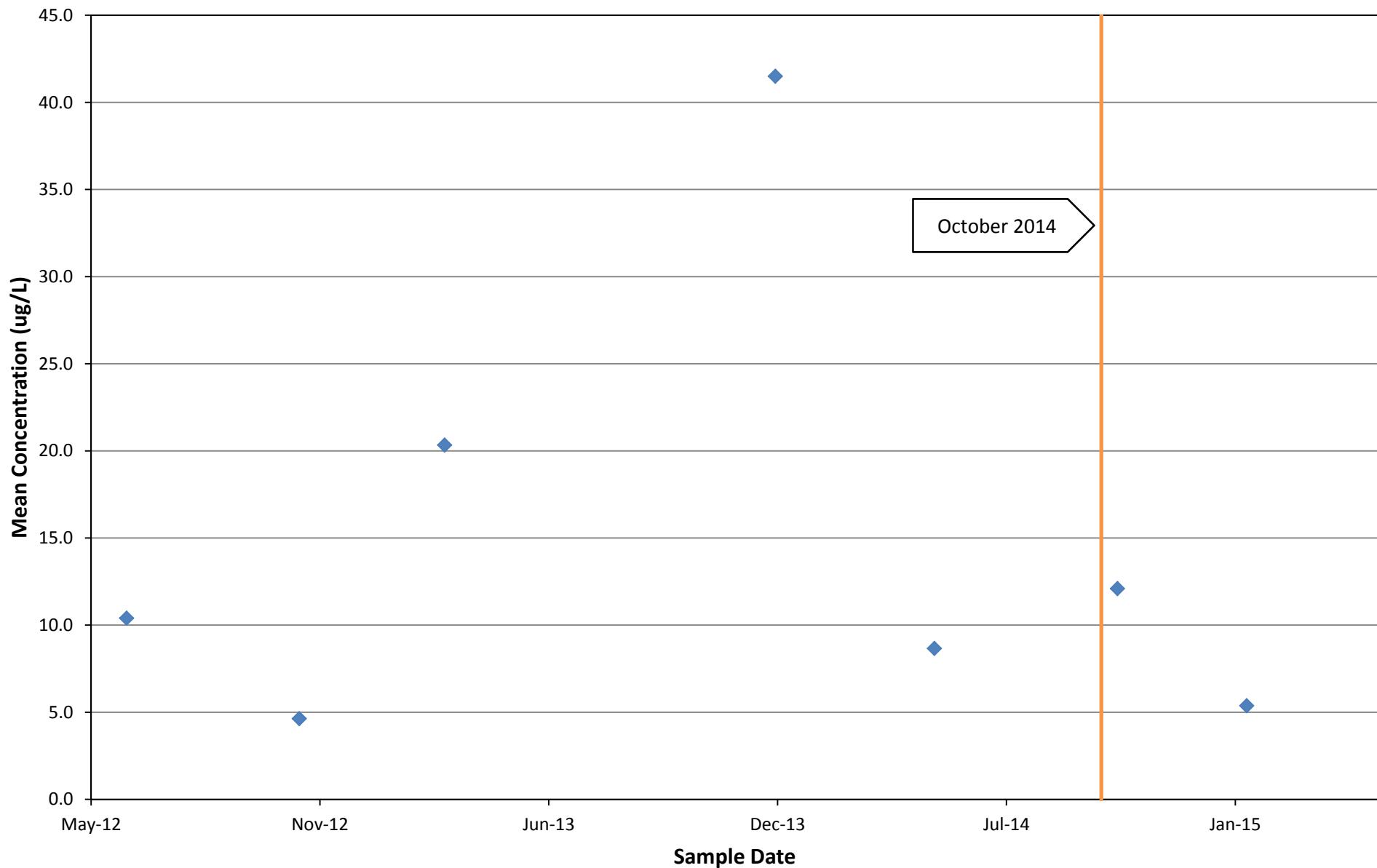
Cadmium



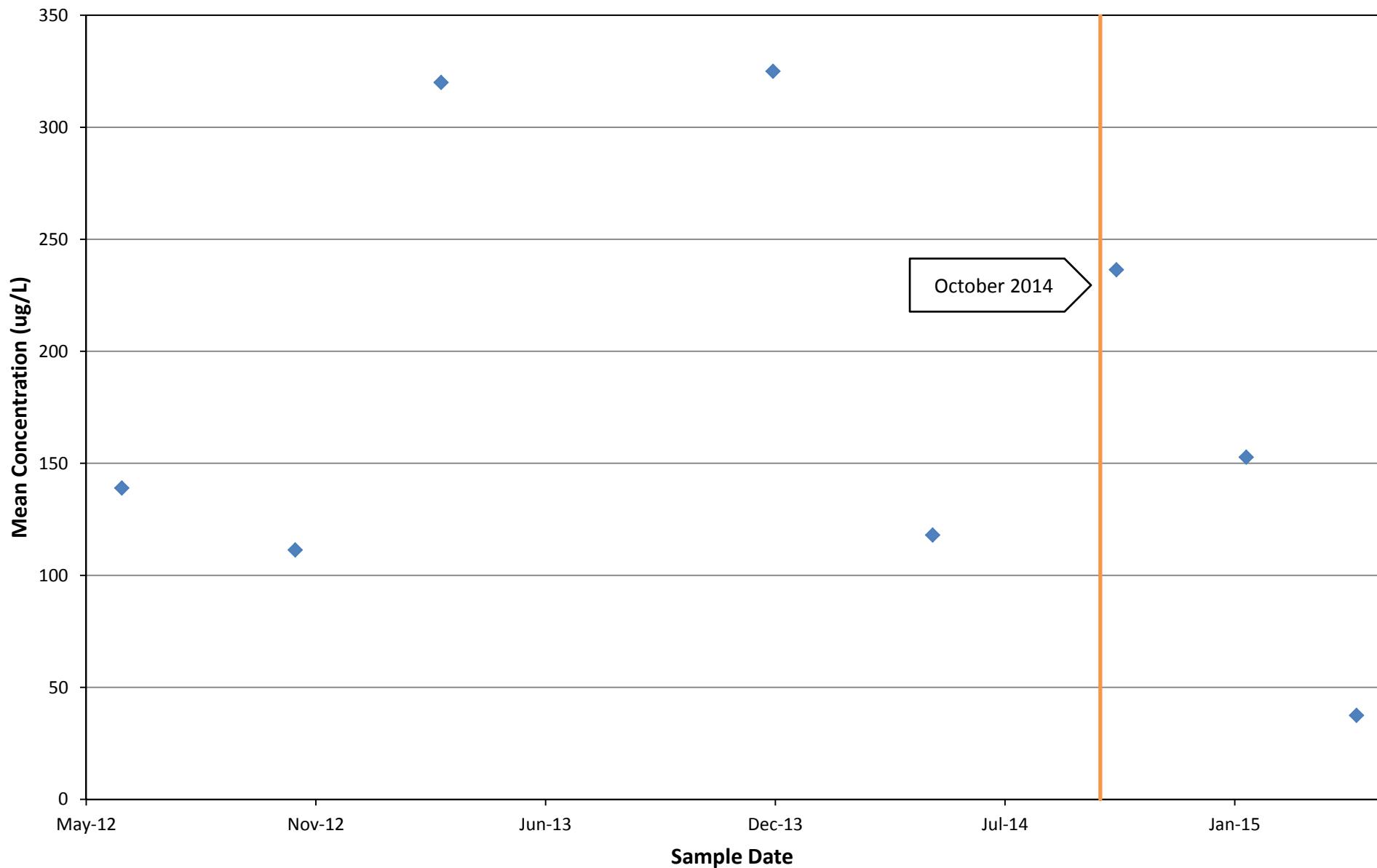
Lead



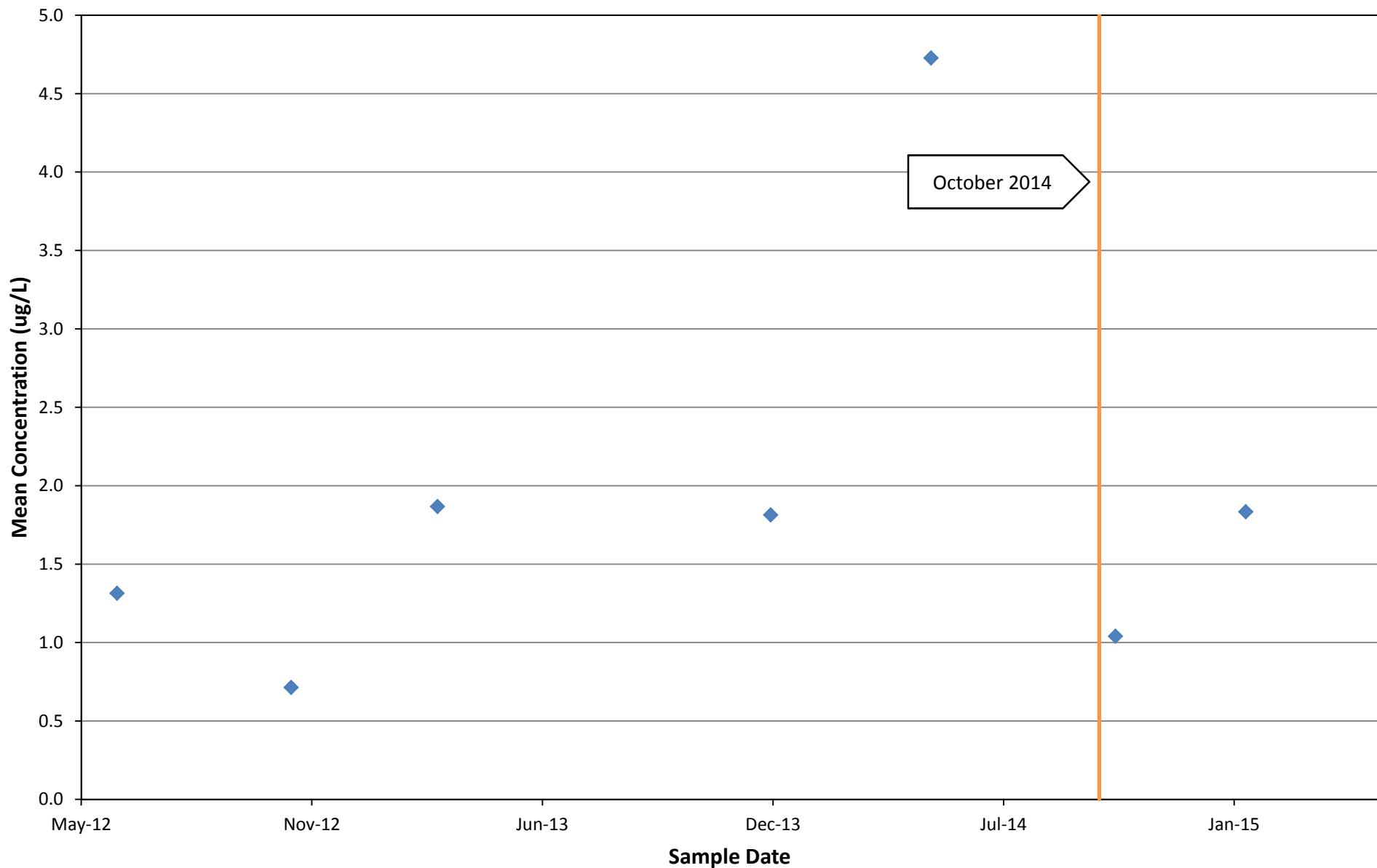
Nickel



TSS



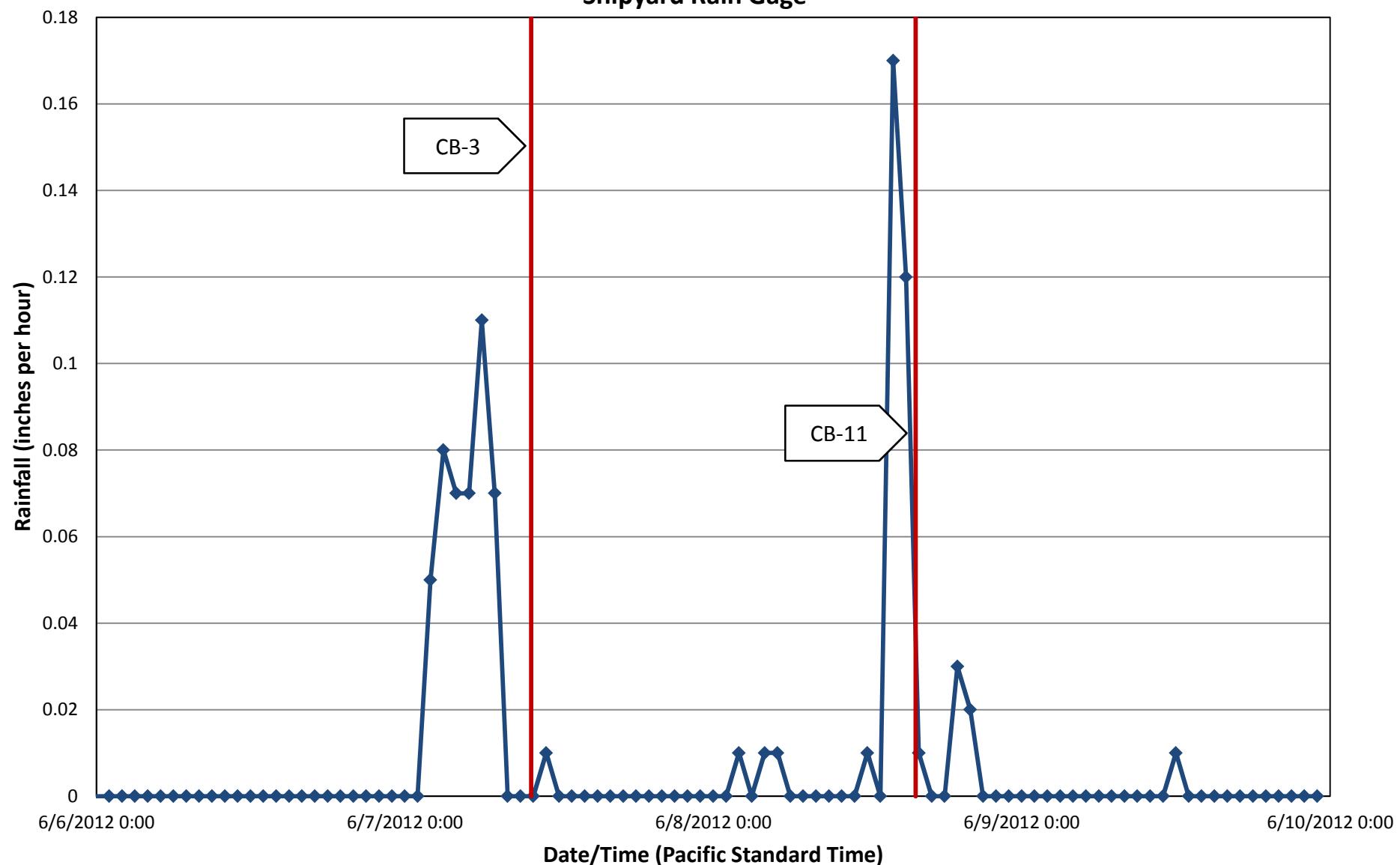
Total PAHs



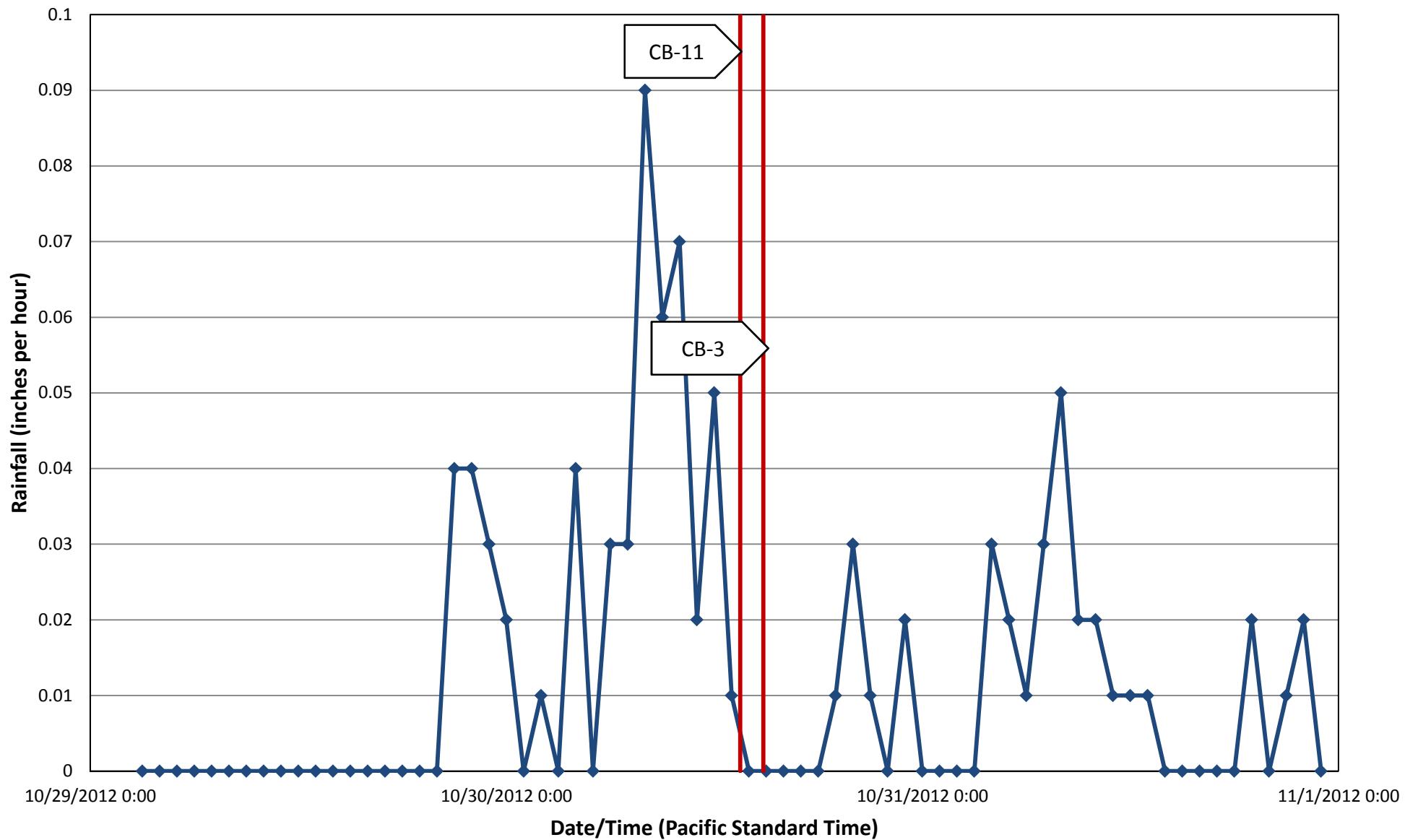
APPENDIX C

HYDROGRAPHS

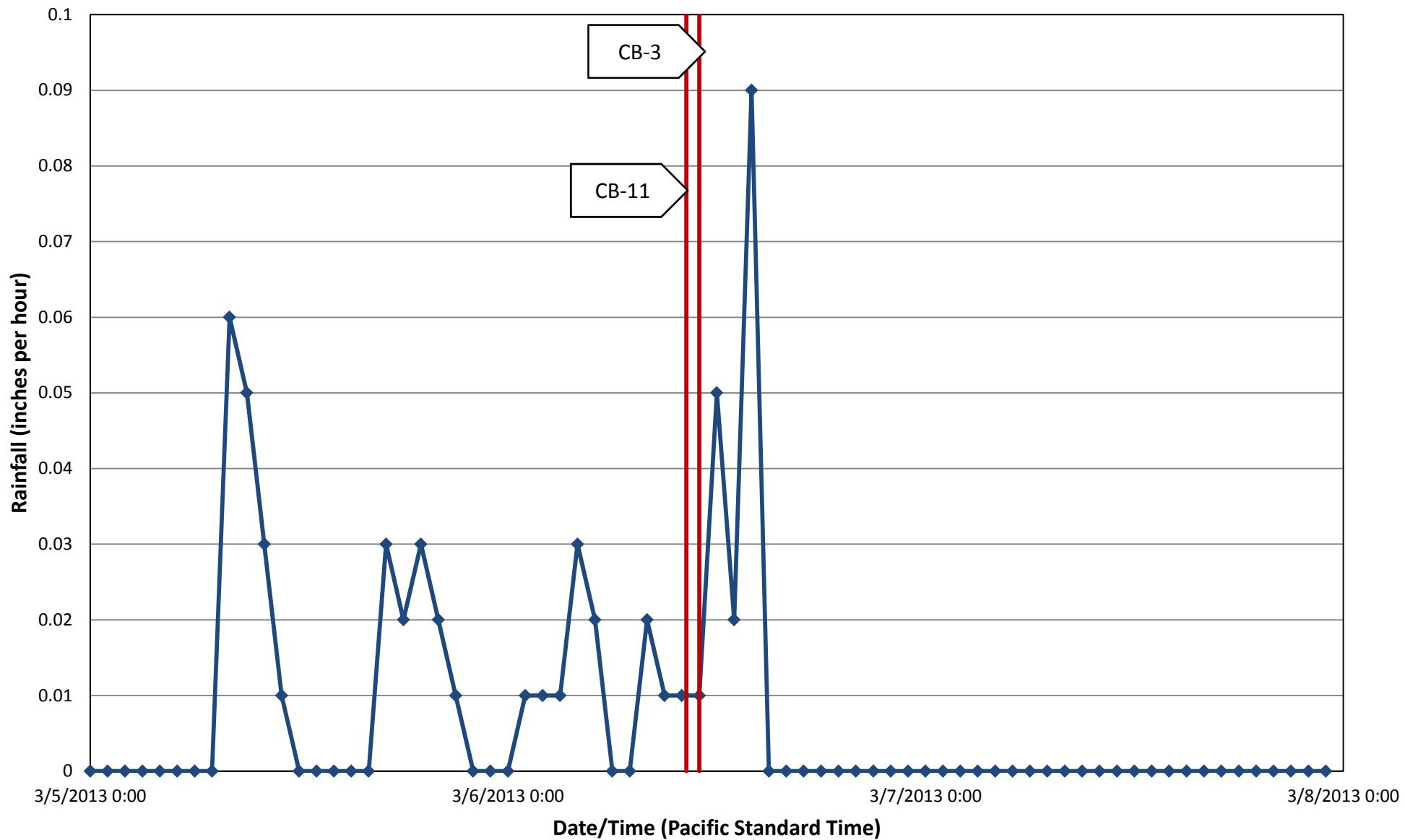
June 6 - 10, 2012 Hydrograph
Shipyard Rain Gage



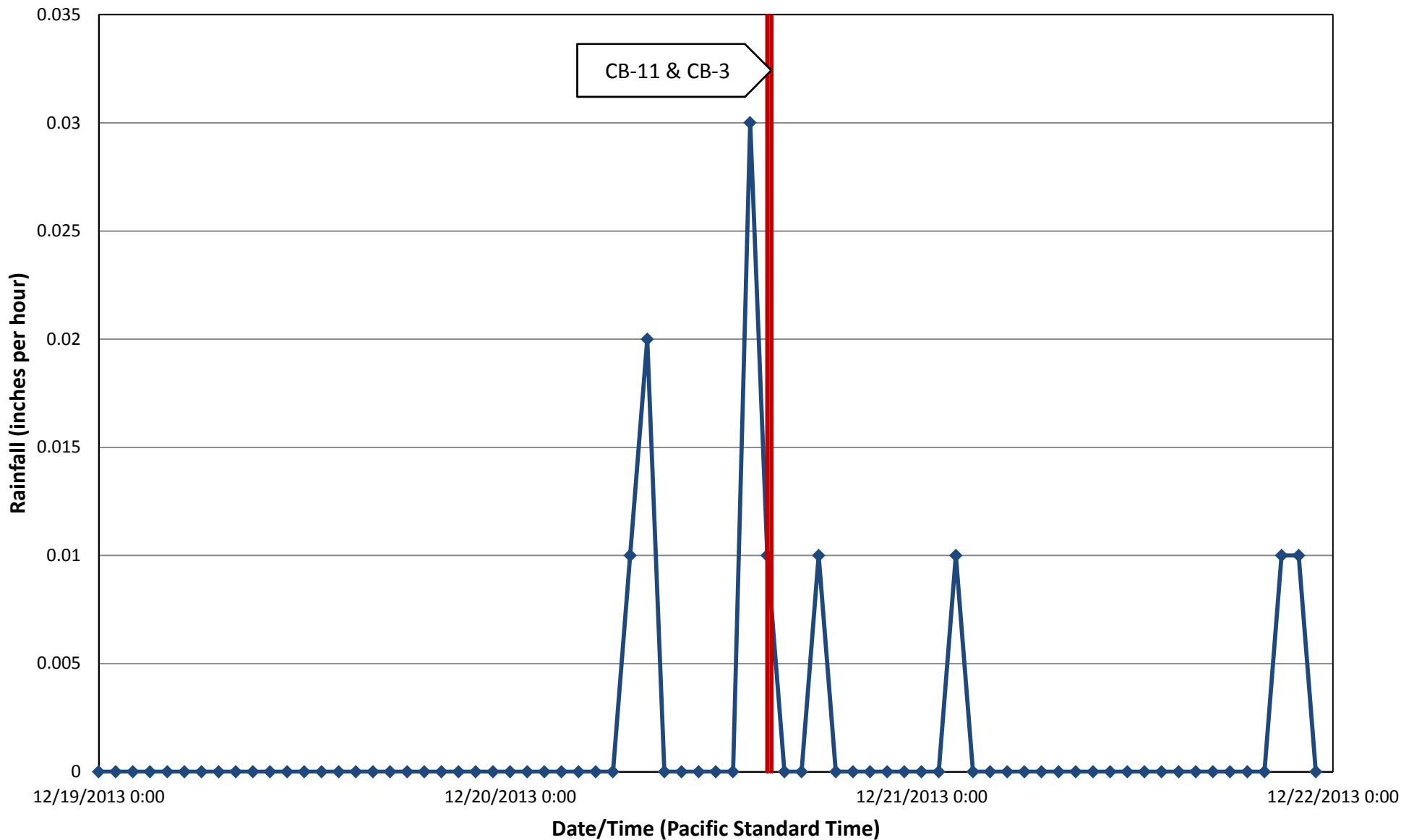
October 29 - November 1, 2012 Hydrograph
Shipyard Rain Gage



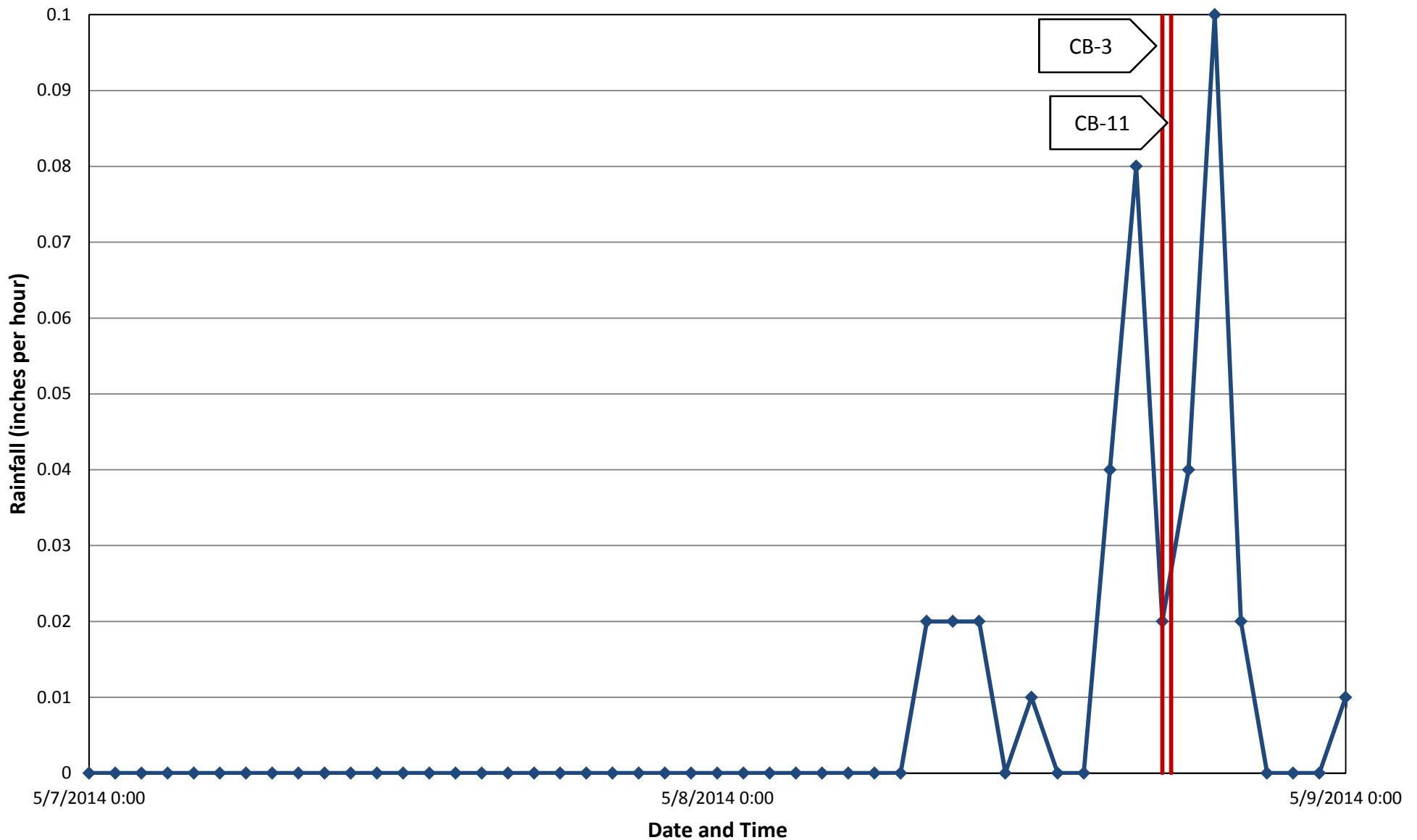
March 5 - 8, 2013 Hydrograph
Shipyard Rain Gage



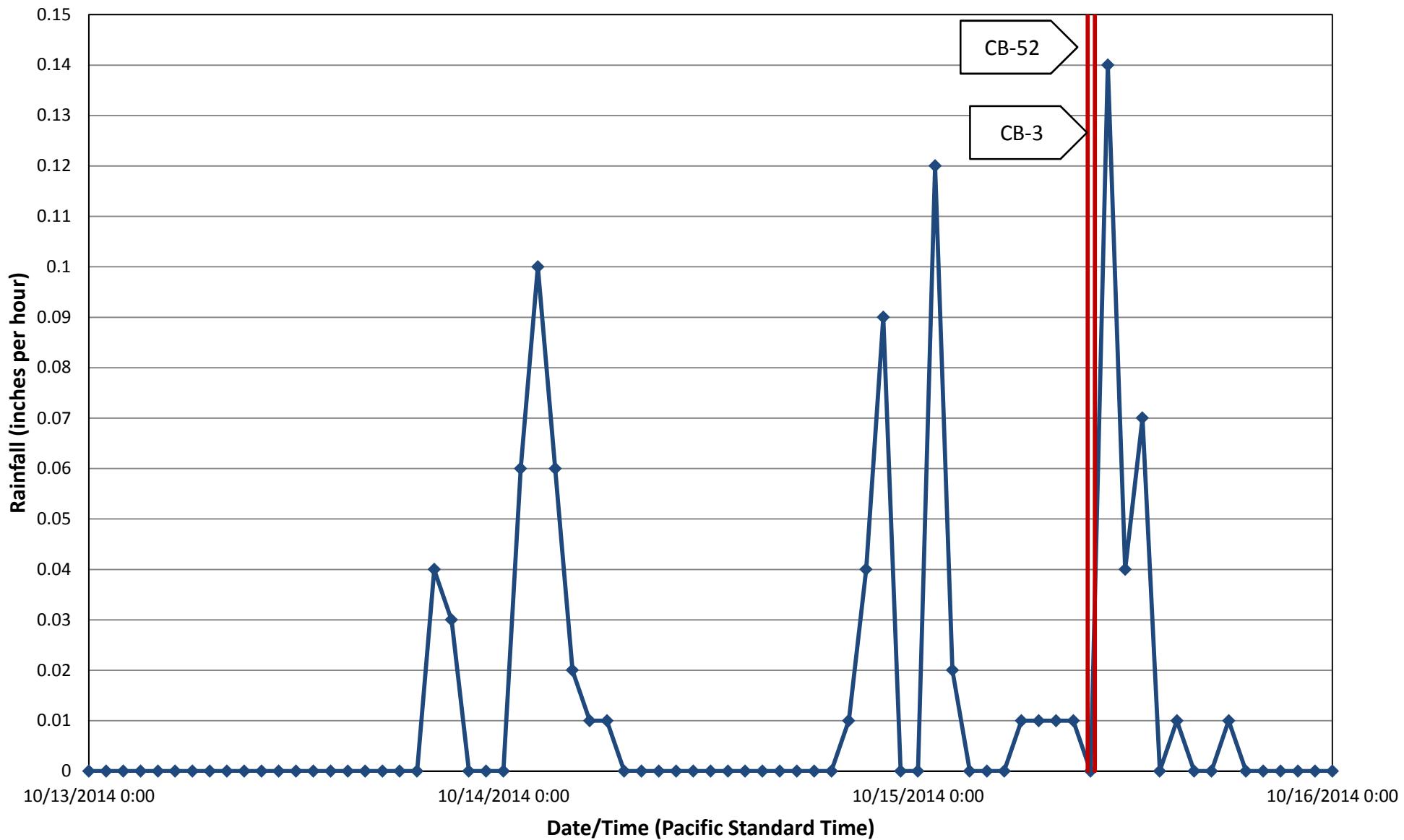
December 19 - 22, 2013 Hydrograph
Shipyard Rain Gage



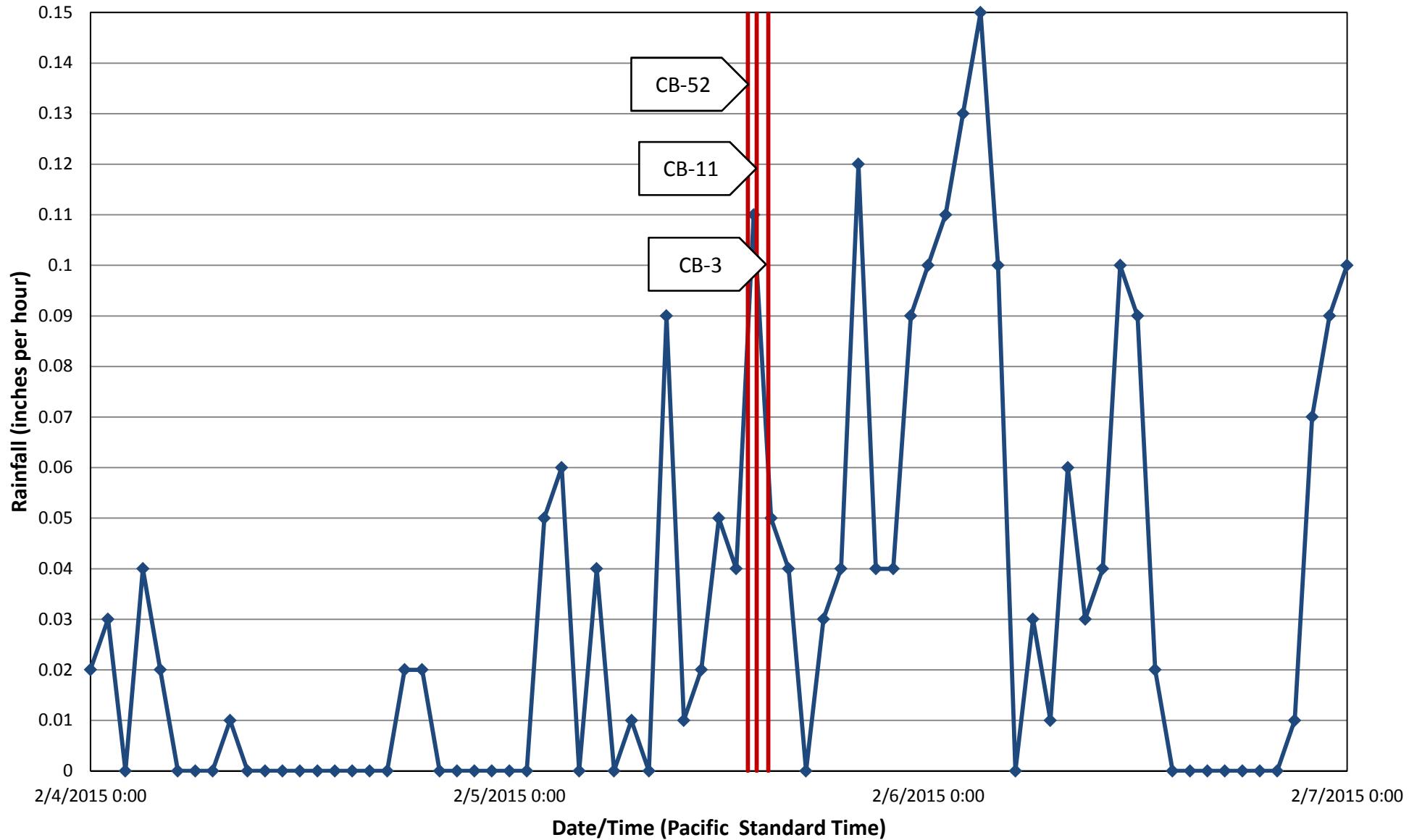
May 7 - 9, 2014 Hydrograph
Shipyard Rain Gage



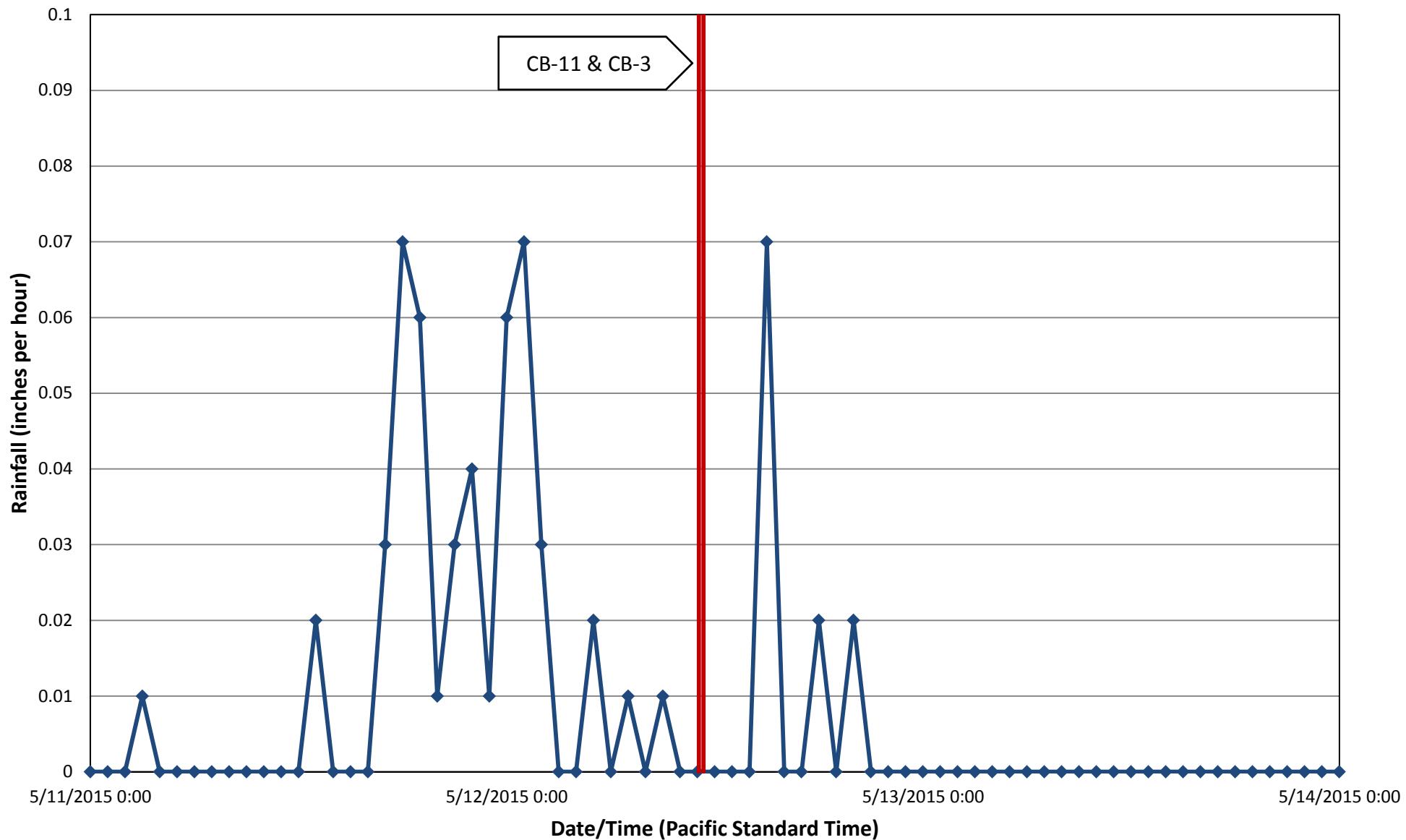
October 13 - 16, 2014 Hydrograph
Shipyard Rain Gage



February 4 - 7, 2015 Hydrograph
Shipyard Rain Gage



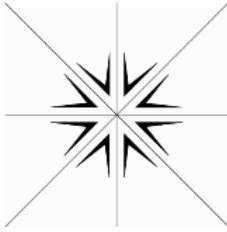
May 11 - 14, 2015 Hydrograph
Shipyard Rain Gage



APPENDIX D

LABORATORY ANALYTICAL REPORTS

SEDIMENT



Specialty Analytical

11711 SE Capps Road, Ste B
Clackamas, Oregon 97015
TEL: 503-607-1331 FAX: 503-607-1336
Website: www.specialtyanalytical.com

May 03, 2012

Joanne Trask
Wohlers Environmental Services, Inc.
7440 SW Hunziker Street
Suite C
Tigard, Oregon 97223

TEL: (503) 670-1344
FAX: (503) 670-1701
RE: Lampros Steel / 120-0060

Dear Joanne Trask:

Order No.: 1204200

Specialty Analytical received 2 sample(s) on 4/20/2012 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications, except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

Marty French
Lab Director

Specialty Analytical

Date Reported: 03-May-12

CLIENT: Wohlers Environmental Services, Inc.
Project: Lampros Steel / 120-0060

Lab Order: 1204200

Lab ID: 1204200-001 **Collection Date:** 4/20/2012 8:05:00 AM

Client Sample ID: CB6-SED

Matrix: SEDIMENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NWTPH-DX WITH SILICA CLEAN-UP						
Diesel	1,670	135	A1	mg/Kg-dry	5	4/25/2012 2:08:00 PM
Lube Oil	9,490	450	A2	mg/Kg-dry	5	4/25/2012 2:08:00 PM
Surr: o-Terphenyl	124	50-150	%REC		5	4/25/2012 2:08:00 PM
ICP METALS- TOTAL RECOVERABLE						
Cadmium	0.468	0.173		mg/Kg-dry	1	4/24/2012 9:58:26 PM
Chromium	71.3	0.866		mg/Kg-dry	1	4/24/2012 9:58:26 PM
Copper	128	1.73		mg/Kg-dry	1	4/24/2012 9:58:26 PM
Manganese	761	0.346		mg/Kg-dry	2	4/25/2012 11:35:54 AM
Nickel	36.4	0.866		mg/Kg-dry	1	4/24/2012 9:58:26 PM
Zinc	727	1.73		mg/Kg-dry	1	4/24/2012 9:58:26 PM
ICP/MS METALS-TOTAL RECOVERABLE						
Aluminum	10,400,000	14,500		µg/Kg-dry	100	5/2/2012 7:50:00 PM
Antimony	1,910	727		µg/Kg-dry	10	5/1/2012 10:37:00 PM
Arsenic	12,300	7,270		µg/Kg-dry	50	5/2/2012 8:57:00 PM
Lead	74,200	363		µg/Kg-dry	10	5/1/2012 10:37:00 PM
Silver	247	145		µg/Kg-dry	10	5/1/2012 10:37:00 PM
TOTAL MERCURY						
Mercury	0.0394	0.0133		mg/Kg-dry	1	4/23/2012
SEMI-VOLATILE COMPOUNDS - BASE/NEUTRAL						
Bis(2-ethylhexyl)phthalate	1,650	120		µg/Kg-dry	1	4/25/2012 11:12:00 AM
Butyl benzyl phthalate	199	120		µg/Kg-dry	1	4/25/2012 11:12:00 AM
Diethyl phthalate	ND	120		µg/Kg-dry	1	4/25/2012 11:12:00 AM
Dimethyl phthalate	ND	120		µg/Kg-dry	1	4/25/2012 11:12:00 AM
Di-n-butyl phthalate	120	120		µg/Kg-dry	1	4/25/2012 11:12:00 AM
Di-n-octyl phthalate	165	120		µg/Kg-dry	1	4/25/2012 11:12:00 AM
Surr: 2-Fluorobiphenyl	74.1	52.6-93.2		%REC	1	4/25/2012 11:12:00 AM
Surr: 4-Terphenyl-d14	86.0	49.8-118		%REC	1	4/25/2012 11:12:00 AM
Surr: Nitrobenzene-d5	52.8	44.8-103		%REC	1	4/25/2012 11:12:00 AM
PAH'S BY GC/MS - LOW LEVEL						
Acenaphthene	183	24.0		µg/Kg-dry	1	4/25/2012 3:26:00 PM
Acenaphthylene	93.7	24.0		µg/Kg-dry	1	4/25/2012 3:26:00 PM
Anthracene	629	24.0		µg/Kg-dry	1	4/25/2012 3:26:00 PM
Benz(a)anthracene	819	24.0		µg/Kg-dry	1	4/25/2012 3:26:00 PM
Benzo(a)pyrene	826	24.0		µg/Kg-dry	1	4/25/2012 3:26:00 PM

Specialty Analytical

Date Reported: 03-May-12

CLIENT: Wohlers Environmental Services, Inc.
Project: Lampros Steel / 120-0060

Lab Order: 1204200

PAH'S BY GC/MS - LOW LEVEL

		SW8270D			Analyst: bda
Benzo(b)fluoranthene	1,380	24.0	µg/Kg-dry	1	4/25/2012 3:26:00 PM
Benzo(g,h,i)perylene	786	24.0	µg/Kg-dry	1	4/25/2012 3:26:00 PM
Benzo(k)fluoranthene	370	24.0	µg/Kg-dry	1	4/25/2012 3:26:00 PM
Chrysene	1,310	24.0	µg/Kg-dry	1	4/25/2012 3:26:00 PM
Dibenz(a,h)anthracene	166	24.0	µg/Kg-dry	1	4/25/2012 3:26:00 PM
Fluoranthene	3,590	24.0	µg/Kg-dry	1	4/25/2012 3:26:00 PM
Fluorene	360	24.0	µg/Kg-dry	1	4/25/2012 3:26:00 PM
Indeno(1,2,3-cd)pyrene	507	24.0	µg/Kg-dry	1	4/25/2012 3:26:00 PM
Naphthalene	151	24.0	µg/Kg-dry	1	4/25/2012 3:26:00 PM
Phenanthrene	2,470	24.0	µg/Kg-dry	1	4/25/2012 3:26:00 PM
Pyrene	2,780	24.0	µg/Kg-dry	1	4/25/2012 3:26:00 PM
Surr: 2-Fluorobiphenyl	76.8	42.6-128	%REC	1	4/25/2012 3:26:00 PM
Surr: Nitrobenzene-d5	78.2	21.7-155	%REC	1	4/25/2012 3:26:00 PM
Surr: p-Terphenyl-d14	90.1	44.9-155	%REC	1	4/25/2012 3:26:00 PM

PCB'S IN SOIL

		SW 8082A		Analyst: jrp
Aroclor 1016	ND	0.600	µg/Kg-dry	1
Aroclor 1221	ND	0.600	µg/Kg-dry	1
Aroclor 1232	ND	0.600	µg/Kg-dry	1
Aroclor 1242	ND	0.600	µg/Kg-dry	1
Aroclor 1248	ND	0.600	µg/Kg-dry	1
Aroclor 1254	113	0.600	µg/Kg-dry	1
Aroclor 1260	101	0.600	µg/Kg-dry	1
Aroclor 1262	ND	0.600	µg/Kg-dry	1
Aroclor 1268	ND	0.600	µg/Kg-dry	1
Surr: Decachlorobiphenyl	68.3	56.5-130	%REC	1

ORGANIC CARBON, TOTAL

		SW9060		Analyst: jrp
Total Organic Carbon	46,300	100	mg/Kg-dry	1

Specialty Analytical

Date Reported: 03-May-12

CLIENT: Wohlers Environmental Services, Inc.
Project: Lampros Steel / 120-0060

Lab Order: 1204200

Lab ID: 1204200-002 **Collection Date:** 4/20/2012 9:00:00 AM

Client Sample ID: CB-7-9-11 Comp-SED

Matrix: SEDIMENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NWTPH-DX WITH SILICA CLEAN-UP						
Diesel	694	114	A1	mg/Kg-dry	5	4/25/2012 2:08:00 PM
Lube Oil	3,570	378	A2	mg/Kg-dry	5	4/25/2012 2:08:00 PM
Surr: o-Terphenyl	78.8	50-150	%REC	%REC	5	4/25/2012 2:08:00 PM
ICP METALS- TOTAL RECOVERABLE						
Cadmium	1.06	0.122		mg/Kg-dry	1	4/24/2012 10:02:59 PM
Chromium	91.4	0.610		mg/Kg-dry	1	4/24/2012 10:02:59 PM
Copper	208	1.22		mg/Kg-dry	1	4/24/2012 10:02:59 PM
Manganese	2,090	0.610		mg/Kg-dry	5	4/25/2012 11:40:24 AM
Nickel	81.9	0.610		mg/Kg-dry	1	4/24/2012 10:02:59 PM
Zinc	456	1.22		mg/Kg-dry	1	4/24/2012 10:02:59 PM
ICP/MS METALS-TOTAL RECOVERABLE						
Aluminum	8,640,000	11,800		µg/Kg-dry	100	5/2/2012 7:23:00 PM
Antimony	2,550	591		µg/Kg-dry	10	5/1/2012 10:09:00 PM
Arsenic	18,500	11,800		µg/Kg-dry	100	5/2/2012 7:23:00 PM
Lead	87,600	296		µg/Kg-dry	10	5/1/2012 10:09:00 PM
Silver	280	118		µg/Kg-dry	10	5/1/2012 10:09:00 PM
TOTAL MERCURY						
Mercury	0.0311	0.0131		mg/Kg-dry	1	4/23/2012
SEMI-VOLATILE COMPOUNDS - BASE/NEUTRAL						
Bis(2-ethylhexyl)phthalate	3,310	101		µg/Kg-dry	1	4/25/2012 11:38:00 AM
Butyl benzyl phthalate	562	101		µg/Kg-dry	1	4/25/2012 11:38:00 AM
Diethyl phthalate	ND	101		µg/Kg-dry	1	4/25/2012 11:38:00 AM
Dimethyl phthalate	ND	101		µg/Kg-dry	1	4/25/2012 11:38:00 AM
Di-n-butyl phthalate	131	101		µg/Kg-dry	1	4/25/2012 11:38:00 AM
Di-n-octyl phthalate	ND	101		µg/Kg-dry	1	4/25/2012 11:38:00 AM
Surr: 2-Fluorobiphenyl	70.8	52.6-93.2		%REC	1	4/25/2012 11:38:00 AM
Surr: 4-Terphenyl-d14	88.9	49.8-118		%REC	1	4/25/2012 11:38:00 AM
Surr: Nitrobenzene-d5	23.3	44.8-103	SMI	%REC	1	4/25/2012 11:38:00 AM
PAH'S BY GC/MS - LOW LEVEL						
Acenaphthene	287	20.2		µg/Kg-dry	1	4/25/2012 3:53:00 PM
Acenaphthylene	30.3	20.2		µg/Kg-dry	1	4/25/2012 3:53:00 PM
Anthracene	307	20.2		µg/Kg-dry	1	4/25/2012 3:53:00 PM
Benz(a)anthracene	1,160	20.2		µg/Kg-dry	1	4/25/2012 3:53:00 PM
Benzo(a)pyrene	1,320	20.2		µg/Kg-dry	1	4/25/2012 3:53:00 PM

Specialty Analytical

Date Reported: 03-May-12

CLIENT: Wohlers Environmental Services, Inc.
Project: Lampros Steel / 120-0060

Lab Order: 1204200

PAH'S BY GC/MS - LOW LEVEL

		SW8270D			Analyst: bda
Benzo(b)fluoranthene	2,190	20.2	µg/Kg-dry	1	4/25/2012 3:53:00 PM
Benzo(g,h,i)perylene	1,010	20.2	µg/Kg-dry	1	4/25/2012 3:53:00 PM
Benzo(k)fluoranthene	408	20.2	µg/Kg-dry	1	4/25/2012 3:53:00 PM
Chrysene	1,660	20.2	µg/Kg-dry	1	4/25/2012 3:53:00 PM
Dibenz(a,h)anthracene	303	20.2	µg/Kg-dry	1	4/25/2012 3:53:00 PM
Fluoranthene	2,360	20.2	µg/Kg-dry	1	4/25/2012 3:53:00 PM
Fluorene	194	20.2	µg/Kg-dry	1	4/25/2012 3:53:00 PM
Indeno(1,2,3-cd)pyrene	826	20.2	µg/Kg-dry	1	4/25/2012 3:53:00 PM
Naphthalene	119	20.2	µg/Kg-dry	1	4/25/2012 3:53:00 PM
Phenanthrene	1,470	20.2	µg/Kg-dry	1	4/25/2012 3:53:00 PM
Pyrene	1,890	20.2	µg/Kg-dry	1	4/25/2012 3:53:00 PM
Surr: 2-Fluorobiphenyl	64.3	42.6-128	%REC	1	4/25/2012 3:53:00 PM
Surr: Nitrobenzene-d5	43.6	21.7-155	%REC	1	4/25/2012 3:53:00 PM
Surr: p-Terphenyl-d14	62.1	44.9-155	%REC	1	4/25/2012 3:53:00 PM

PCB'S IN SOIL

		SW 8082A		Analyst: jrp
Aroclor 1016	ND	0.504	µg/Kg-dry	1
Aroclor 1221	ND	0.504	µg/Kg-dry	1
Aroclor 1232	ND	0.504	µg/Kg-dry	1
Aroclor 1242	ND	0.504	µg/Kg-dry	1
Aroclor 1248	ND	0.504	µg/Kg-dry	1
Aroclor 1254	121	0.504	µg/Kg-dry	1
Aroclor 1260	110	0.504	µg/Kg-dry	1
Aroclor 1262	ND	0.504	µg/Kg-dry	1
Aroclor 1268	ND	0.504	µg/Kg-dry	1
Surr: Decachlorobiphenyl	78.5	56.5-130	%REC	1

ORGANIC CARBON, TOTAL

		SW9060		Analyst: jrp
Total Organic Carbon	17,900	100	mg/Kg-dry	1

QC SUMMARY REPORT

WO#: 1204200
03-May-12

Specialty Analytical

Client: Wohlers Environmental Services, Inc.

Project: Lampros Steel / 120-0060

TestCode: 6010_S

Sample ID: ICV	SampType: ICV	TestCode: 6010_S	Units: mg/Kg	Prep Date:			RunNo: 3903				
Client ID: ICV	Batch ID: 2418	TestNo: SW6010C	SW3050B	Analysis Date: 4/24/2012			SeqNo: 52080				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	5.19	0.100	5.000	0	104	90	110				
Chromium	25.2	0.500	25.00	0	101	90	110				
Copper	50.7	1.00	50.00	0	101	90	110				
Manganese	5.37	0.100	5.000	0	107	90	110				
Nickel	26.3	0.500	25.00	0	105	90	110				
Zinc	52.4	1.00	50.00	0	105	90	110				

Sample ID: MBLK-2418	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 4/24/2012			RunNo: 3903				
Client ID: PBS	Batch ID: 2418	TestNo: SW6010C	SW3050B	Analysis Date: 4/24/2012			SeqNo: 52082				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	ND	0.100									
Chromium	ND	0.500									
Copper	ND	1.00									
Manganese	ND	0.100									
Nickel	ND	0.500									
Zinc	ND	1.00									

Sample ID: LCS-2418	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 4/24/2012			RunNo: 3903				
Client ID: LCSS	Batch ID: 2418	TestNo: SW6010C	SW3050B	Analysis Date: 4/24/2012			SeqNo: 52083				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	4.65	0.100	5.000	0	93.0	87.2	109				
Chromium	21.6	0.500	25.00	0	86.6	84	113				
Copper	48.6	1.00	50.00	0	97.3	91.3	111				

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit	Page 1 of 20
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits			

QC SUMMARY REPORT

WO#: 1204200
03-May-12

Specialty Analytical

Client: Wohlers Environmental Services, Inc.

Project: Lampros Steel / 120-0060

TestCode: 6010_S

Sample ID: LCS-2418	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 4/24/2012	RunNo: 3903
Client ID: LCSS	Batch ID: 2418	TestNo: SW6010C	SW3050B	Analysis Date: 4/24/2012	SeqNo: 52083
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual					

Manganese	6.09	0.100	5.000	0	122	80	120			S
Nickel	22.9	0.500	25.00	0	91.6	85.5	112			
Zinc	45.3	1.00	50.00	0	90.5	86.8	112			

Sample ID: 1204207-010ADUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 4/24/2012	RunNo: 3903
Client ID: ZZZZZZ	Batch ID: 2418	TestNo: SW6010C	SW3050B	Analysis Date: 4/24/2012	SeqNo: 52086
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual					

Cadmium	ND	0.130			0	0	20
Chromium	16.7	0.651			16.50	1.18	20
Copper	21.6	1.30			21.85	1.08	20
Nickel	10.1	0.651			10.08	0.387	20
Zinc	121	1.30			120.3	0.648	20

Sample ID: 1204207-010AMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 4/24/2012	RunNo: 3903
Client ID: ZZZZZZ	Batch ID: 2418	TestNo: SW6010C	SW3050B	Analysis Date: 4/24/2012	SeqNo: 52087
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual					

Cadmium	6.29	0.130	6.515	0	96.6	86.4	113
Chromium	47.9	0.651	32.57	16.50	96.4	75	121
Copper	86.7	1.30	65.15	21.85	99.5	75.1	126
Nickel	41.5	0.651	32.57	10.08	96.4	89.3	105
Zinc	183	1.30	65.15	120.3	95.9	86.2	113

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 2 of 20

QC SUMMARY REPORT

WO#: 1204200
03-May-12

Specialty Analytical

Client: Wohlers Environmental Services, Inc.

Project: Lampros Steel / 120-0060

TestCode: 6010_S

Sample ID: 1204207-010AMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 4/24/2012	RunNo: 3903
Client ID: ZZZZZZ	Batch ID: 2418	TestNo: SW6010C	SW3050B	Analysis Date: 4/24/2012	SeqNo: 52088
Analyte					
Cadmium	Result	PQL	SPK value	SPK Ref Val	%REC
Chromium	6.46	0.130	6.515	0	99.2
Chromium	49.2	0.651	32.57	16.50	100
Copper	88.6	1.30	65.15	21.85	102
Nickel	43.0	0.651	32.57	10.08	101
Zinc	186	1.30	65.15	120.3	101
Analyte					
Manganese	5.14	0.100	5.000	0	103
Analyte					
Manganese	927	0.261			908.4
Analyte					
Manganese	584	0.261	6.515	908.4	-4,980

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit	Page 3 of 20
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits			

QC SUMMARY REPORT

WO#: 1204200
03-May-12

Specialty Analytical

Client: Wohlers Environmental Services, Inc.

Project: Lampros Steel / 120-0060

TestCode: 6010_S

Sample ID: 1204207-010AMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 4/24/2012	RunNo: 3903
Client ID: ZZZZZZ	Batch ID: 2418	TestNo: SW6010C	SW3050B	Analysis Date: 4/25/2012	SeqNo: 52353
Analyte					
Manganese	Result	PQL	SPK value	SPK Ref Val	%REC
	561	0.261	6.515	908.4	-5.340
					LowLimit
					75
					HighLimit
					125
					RPD Ref Val
					584.2
					%RPD
					4.10
					RPDLimit
					20
					SMC
Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	RunNo: 3903
Client ID: CCV	Batch ID: 2418	TestNo: SW6010C	SW3050B	Analysis Date: 4/25/2012	SeqNo: 52354
Analyte					
Manganese	Result	PQL	SPK value	SPK Ref Val	%REC
	4.78	0.100	5.000	0	95.6
					LowLimit
					90
					HighLimit
					110
					RPD Ref Val
					%RPD
					RPDLimit
					Qual

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 4 of 20

QC SUMMARY REPORT

WO#: 1204200
03-May-12

Specialty Analytical

Client: Wohlers Environmental Services, Inc.

Project: Lampros Steel / 120-0060

TestCode: 6020_S

Sample ID: ICV	SampType: ICV	TestCode: 6020_S	Units: µg/Kg	Prep Date:			RunNo: 4028
Client ID: ICV	Batch ID: 2431	TestNo: SW6020A	SW3050B	Analysis Date: 5/1/2012			SeqNo: 53910
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual							

Aluminum	48,400	100	50,000	0	96.8	90	110				
Antimony	5,020	50.0	5,000	0	100	90	110				
Arsenic	5,240	100	5,000	0	105	90	110				
Lead	4,870	25.0	5,000	0	97.4	90	110				
Silver	4,720	10.0	5,000	0	94.3	90	110				

Sample ID: MBLK-2431	SampType: MBLK	TestCode: 6020_S	Units: µg/Kg	Prep Date: 4/25/2012			RunNo: 4028
Client ID: PBS	Batch ID: 2431	TestNo: SW6020A	SW3050B	Analysis Date: 5/1/2012			SeqNo: 53912
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual							

Aluminum	ND	100									
Antimony	ND	50.0									
Arsenic	ND	100									
Lead	ND	25.0									
Silver	ND	10.0									

Sample ID: LCS-2431	SampType: LCS	TestCode: 6020_S	Units: µg/Kg	Prep Date: 4/25/2012			RunNo: 4028
Client ID: LCSS	Batch ID: 2431	TestNo: SW6020A	SW3050B	Analysis Date: 5/1/2012			SeqNo: 53913
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual							

Antimony	5,020	50.0	5,000	0	100	70	110				
Arsenic	4,840	100	5,000	0	96.8	75	115				
Lead	5,220	25.0	5,000	0	104	80	120				
Silver	4,750	10.0	5,000	0	95.0	80	120				

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit	Page 5 of 20
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits			

QC SUMMARY REPORT

WO#: 1204200
03-May-12

Specialty Analytical

Client: Wohlers Environmental Services, Inc.

Project: Lampros Steel / 120-0060

TestCode: 6020_S

Sample ID: 1204200-002ADUP	SampType: DUP	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 4/25/2012	RunNo: 4028
Client ID: CB-7-9-11 Comp-SE	Batch ID: 2431	TestNo: SW6020A	SW3050B	Analysis Date: 5/1/2012	SeqNo: 53915
Analyte					
	Result	PQL	SPK value	SPK Ref Val	%REC
Antimony	2,040	591			2,552
Lead	83,700	296			87,620
Silver	210	118			279.8

Sample ID: 1204200-002AMS	SampType: MS	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 4/25/2012	RunNo: 4028
Client ID: CB-7-9-11 Comp-SE	Batch ID: 2431	TestNo: SW6020A	SW3050B	Analysis Date: 5/1/2012	SeqNo: 53916
Analyte					
	Result	PQL	SPK value	SPK Ref Val	%REC
Antimony	4,450	591	5,914	2,552	32.1
Lead	88,300	296	5,914	87,620	11.2
Silver	5,300	118	5,914	279.8	84.9

Sample ID: 1204200-002AMSD	SampType: MSD	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 4/25/2012	RunNo: 4028
Client ID: CB-7-9-11 Comp-SE	Batch ID: 2431	TestNo: SW6020A	SW3050B	Analysis Date: 5/1/2012	SeqNo: 53917
Analyte					
	Result	PQL	SPK value	SPK Ref Val	%REC
Antimony	4,430	591	5,914	2,552	31.7
Lead	88,100	296	5,914	87,620	8.00
Silver	5,310	118	5,914	279.8	85.0

Sample ID: ICV	SampType: ICV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	RunNo: 4028
Client ID: ICV	Batch ID: 2431	TestNo: SW6020A	SW3050B	Analysis Date: 5/2/2012	SeqNo: 54269
Analyte					
	Result	PQL	SPK value	SPK Ref Val	%REC
Aluminum	48,100	100	50,000	0	96.3
90				110	

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 6 of 20

QC SUMMARY REPORT

WO#: 1204200
03-May-12

Specialty Analytical

Client: Wohlers Environmental Services, Inc.

Project: Lampros Steel / 120-0060

TestCode: 6020_S

Sample ID: ICV	SampType: ICV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	RunNo: 4028						
Client ID: ICV	Batch ID: 2431	TestNo: SW6020A	SW3050B	Analysis Date: 5/2/2012	SeqNo: 54269						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5,170	100	5,000	0	103	90	110				
<hr/>											
Sample ID: LCS-2431	SampType: LCS	TestCode: 6020_S	Units: µg/Kg	Prep Date:	4/25/2012	RunNo: 4028					
Client ID: LCSS	Batch ID: 2431	TestNo: SW6020A	SW3050B	Analysis Date:	5/2/2012	SeqNo: 54271					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	53,700	100	50,000	0	107	80	120				
<hr/>											
Sample ID: 1204200-002ADUP	SampType: DUP	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date:	4/25/2012	RunNo: 4028					
Client ID: CB-7-9-11 Comp-SE	Batch ID: 2431	TestNo: SW6020A	SW3050B	Analysis Date:	5/2/2012	SeqNo: 54273					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	8,200,000	11,800				8,638,000			5.23	20	
Arsenic	18,000	11,800				18,500			2.79	20	
<hr/>											
Sample ID: 1204200-002AMS	SampType: MS	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date:	4/25/2012	RunNo: 4028					
Client ID: CB-7-9-11 Comp-SE	Batch ID: 2431	TestNo: SW6020A	SW3050B	Analysis Date:	5/2/2012	SeqNo: 54274					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	8,870,000	11,800	59,140	8,638,000	396	70	130				SMC
Arsenic	17,400	11,800	5,914	18,500	-18.8	70	130				S

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 7 of 20

QC SUMMARY REPORT

WO#: 1204200
03-May-12

Specialty Analytical

Client: Wohlers Environmental Services, Inc.

Project: Lampros Steel / 120-0060

TestCode: 6020_S

Sample ID: 1204200-002AMSD	SampType: MSD	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 4/25/2012	RunNo: 4028
Client ID: CB-7-9-11 Comp-SE	Batch ID: 2431	TestNo: SW6020A	SW3050B	Analysis Date: 5/2/2012	SeqNo: 54275
Analyte					
	Result	PQL	SPK value	SPK Ref Val	%REC
Aluminum	8,990,000	11,800	59,140	8,638,000	588
Arsenic	17,200	11,800	5,914	18,500	-22.0

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	RunNo: 4028
Client ID: CCV	Batch ID: 2431	TestNo: SW6020A	SW3050B	Analysis Date: 5/2/2012	SeqNo: 54283
Analyte					
	Result	PQL	SPK value	SPK Ref Val	%REC
Aluminum	46,500	100	50,000	0	93.0
Arsenic	5,240	100	5,000	0	105

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 8 of 20

QC SUMMARY REPORT

WO#: 1204200
03-May-12

Specialty Analytical

Client: Wohlers Environmental Services, Inc.

Project: Lampros Steel / 120-0060

TestCode: 8082LL_S

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:			RunNo: 3945				
Client ID: CCV	Batch ID: 2425	TestNo: SW 8082A	3545_8082LL	Analysis Date: 4/26/2012			SeqNo: 52749				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	64.7	0.333	66.67	0	97.0	85	115				
Aroclor 1254	66.7	0.333	66.67	0	100	85	115				
Aroclor 1260	66.7	0.333	66.67	0	100	85	115				

Sample ID: MB-2425	SampType: MBLK	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 4/24/2012			RunNo: 3945				
Client ID: PBS	Batch ID: 2425	TestNo: SW 8082A	3545_8082LL	Analysis Date: 4/26/2012			SeqNo: 52750				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016	ND	0.333									
Aroclor 1221	ND	0.333									
Aroclor 1232	ND	0.333									
Aroclor 1242	ND	0.333									
Aroclor 1248	ND	0.333									
Aroclor 1254	ND	0.333									
Aroclor 1260	ND	0.333									
Aroclor 1262	ND	0.333									
Aroclor 1268	ND	0.333									
Surr: Decachlorobiphenyl	6,230		6,667		93.5	56.5	130				

Sample ID: LCS-2425	SampType: LCS	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 4/24/2012			RunNo: 3945				
Client ID: LCSS	Batch ID: 2425	TestNo: SW 8082A	3545_8082LL	Analysis Date: 4/26/2012			SeqNo: 52751				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	61.3	0.333	66.67	0	92.0	44.3	137				
-------------------	------	-------	-------	---	------	------	-----	--	--	--	--

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit	Page 9 of 20
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits			

QC SUMMARY REPORT

WO#: 1204200
03-May-12

Specialty Analytical

Client: Wohlers Environmental Services, Inc.

Project: Lampros Steel / 120-0060

TestCode: 8082LL_S

Sample ID: 1204200-001AMS	SampType: MS	TestCode: 8082LL_S	Units: µg/Kg-dry	Prep Date: 4/24/2012	RunNo: 3945
Client ID: CB6-SED	Batch ID: 2425	TestNo: SW 8082A	3545_8082LL	Analysis Date: 4/26/2012	SeqNo: 52752
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Aroclor 1016/1260	112	0.600	120.1	0	93.0
				56.6	123
<hr/>					
Sample ID: 1204200-001AMSD	SampType: MSD	TestCode: 8082LL_S	Units: µg/Kg-dry	Prep Date: 4/24/2012	RunNo: 3945
Client ID: CB6-SED	Batch ID: 2425	TestNo: SW 8082A	3545_8082LL	Analysis Date: 4/26/2012	SeqNo: 52753
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Aroclor 1016/1260	88.9	0.600	120.1	0	74.0
				56.6	123
				111.7	22.8
					20 R
<hr/>					
Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	RunNo: 3945
Client ID: CCV	Batch ID: 2425	TestNo: SW 8082A	3545_8082LL	Analysis Date: 4/26/2012	SeqNo: 52757
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Aroclor 1016/1260	62.0	0.333	66.67	0	93.0
Aroclor 1254	64.0	0.333	66.67	0	96.0
Aroclor 1260	66.0	0.333	66.67	0	99.0
				85	115
				85	115
				85	115

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 10 of 20

QC SUMMARY REPORT

WO#: 1204200
03-May-12

Specialty Analytical

Client: Wohlers Environmental Services, Inc.

Project: Lampros Steel / 120-0060

TestCode: 8270BN_S

Sample ID: CCV-2421	SampType: CCV	TestCode: 8270BN_S	Units: µg/Kg	Prep Date:	RunNo: 3912
Client ID: CCV	Batch ID: 2421	TestNo: SW8270D	SW 3545A	Analysis Date: 4/25/2012	SeqNo: 52247
Analyte					
Di-n-octyl phthalate	Result	PQL	SPK value	SPK Ref Val	%REC
	726	33.3	666.6	0	109
				80	120
Analyte					
Bis(2-ethylhexyl)phthalate	ND	33.3			
Butyl benzyl phthalate	ND	33.3			
Diethyl phthalate	ND	33.3			
Dimethyl phthalate	ND	33.3			
Di-n-butyl phthalate	ND	33.3			
Di-n-octyl phthalate	ND	33.3			
Surr: 2-Fluorobiphenyl	2,630		3,333	78.8	52.6
Surr: 4-Terphenyl-d14	3,300		3,333	99.1	49.8
Surr: Nitrobenzene-d5	2,520		3,333	75.5	44.8
					103

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 11 of 20

QC SUMMARY REPORT

WO#: 1204200
03-May-12

Specialty Analytical

Client: Wohlers Environmental Services, Inc.

Project: Lampros Steel / 120-0060

TestCode: DXSIL_S

Sample ID: CCV	SampType: CCV	TestCode: DXSIL_S	Units: mg/Kg	Prep Date:	RunNo: 3927
Client ID: CCV	Batch ID: 2413	TestNo: NWTPH-Dx/Si SW3545A		Analysis Date: 4/25/2012	SeqNo: 52438
Analyte					
Diesel	Result	PQL	SPK value	SPK Ref Val	%REC
988	15.0	1,022	0	96.6	85
Lube Oil	463	50.0	524.5	0	88.3
				HighLimit	RPD Ref Val
				115	%RPD
					RPDLimit
					Qual
Sample ID: MB-2413	SampType: MBLK	TestCode: DXSIL_S	Units: mg/Kg	Prep Date: 4/23/2012	RunNo: 3927
Client ID: PBS	Batch ID: 2413	TestNo: NWTPH-Dx/Si SW3545A		Analysis Date: 4/25/2012	SeqNo: 52439
Analyte					
Diesel	Result	PQL	SPK value	SPK Ref Val	%REC
ND	15.0				
Lube Oil	ND	50.0			
Surr: o-Terphenyl	30.5		33.30		91.6
				50	
				150	
Sample ID: LCS-2413	SampType: LCS	TestCode: DXSIL_S	Units: mg/Kg	Prep Date: 4/23/2012	RunNo: 3927
Client ID: LCSS	Batch ID: 2413	TestNo: NWTPH-Dx/Si SW3545A		Analysis Date: 4/25/2012	SeqNo: 52440
Analyte					
Diesel	Result	PQL	SPK value	SPK Ref Val	%REC
156	15.0	166.5	0	93.4	63.1
Lube Oil	140	50.0	166.5	0	84.2
				64.6	
				132	
Sample ID: 1204200-002ADUP	SampType: DUP	TestCode: DXSIL_S	Units: mg/Kg-dry	Prep Date: 4/23/2012	RunNo: 3927
Client ID: CB-7-9-11 Comp-SE	Batch ID: 2413	TestNo: NWTPH-Dx/Si SW3545A		Analysis Date: 4/25/2012	SeqNo: 52443
Analyte					
Diesel	Result	PQL	SPK value	SPK Ref Val	%REC
776	114				693.7
Lube Oil	3,910	378			3,572
					11.2
					20
					A1
					8.97
					20
					A2

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 12 of 20

QC SUMMARY REPORT

WO#: 1204200
03-May-12

Specialty Analytical

Client: Wohlers Environmental Services, Inc.

Project: Lampros Steel / 120-0060

TestCode: DXSIL_S

Sample ID: CCV	SampType: CCV	TestCode: DXSIL_S	Units: mg/Kg	Prep Date:	RunNo: 3927
Client ID: CCV	Batch ID: 2413	TestNo: NWTPH-Dx/Si SW3545A		Analysis Date: 4/25/2012	SeqNo: 52444
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Diesel	1,330	15.0	1,363	0	97.3
Lube Oil	599	50.0	699.3	0	85.7
				LowLimit	HighLimit
				85	115
				RPD Ref Val	%RPD
				85	RPDLimit
				115	Qual

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 13 of 20

QC SUMMARY REPORT

WO#: 1204200
03-May-12

Specialty Analytical

Client: Wohlers Environmental Services, Inc.

Project: Lampros Steel / 120-0060

TestCode: HG_CTS

Sample ID:	MB-2410	SampType:	MBLK	TestCode:	HG_CTS	Units:	mg/Kg	Prep Date:	4/23/2012	RunNo:	3879	
Client ID:	PBS	Batch ID:	2410	TestNo:	SW 7471B		SW 7471B	Analysis Date:	4/23/2012	SeqNo:	51837	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		ND		0.0167								
Sample ID:	LCS-2410	SampType:	LCS	TestCode:	HG_CTS	Units:	mg/Kg	Prep Date:	4/23/2012	RunNo:	3879	
Client ID:	LCSS	Batch ID:	2410	TestNo:	SW 7471B		SW 7471B	Analysis Date:	4/23/2012	SeqNo:	51838	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.256		0.0167	0.2500	0	103	88.2	113			
Sample ID:	1204192-003ADUP	SampType:	DUP	TestCode:	HG_CTS	Units:	mg/Kg-dry	Prep Date:	4/23/2012	RunNo:	3879	
Client ID:	ZZZZZZ	Batch ID:	2410	TestNo:	SW 7471B		SW 7471B	Analysis Date:	4/23/2012	SeqNo:	51841	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.0501		0.0175					0.05868	15.8	20	
Sample ID:	1204192-003AMS	SampType:	MS	TestCode:	HG_CTS	Units:	mg/Kg-dry	Prep Date:	4/23/2012	RunNo:	3879	
Client ID:	ZZZZZZ	Batch ID:	2410	TestNo:	SW 7471B		SW 7471B	Analysis Date:	4/23/2012	SeqNo:	51842	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.349		0.0196	0.2940	0.05868	98.7	78.1	125			
Sample ID:	1204192-003AMSD	SampType:	MSD	TestCode:	HG_CTS	Units:	mg/Kg-dry	Prep Date:	4/23/2012	RunNo:	3879	
Client ID:	ZZZZZZ	Batch ID:	2410	TestNo:	SW 7471B		SW 7471B	Analysis Date:	4/23/2012	SeqNo:	51843	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.363		0.0196	0.2940	0.05868	104	78.1	125	0.3488	3.96	20

Qualifiers: B Analyte detected in the associated Method Blank

R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded

S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 14 of 20

QC SUMMARY REPORT

WO#: 1204200
03-May-12

Specialty Analytical

Client: Wohlers Environmental Services, Inc.

Project: Lampros Steel / 120-0060

TestCode: HG_CTS

Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	RunNo: 3879						
Client ID: CCV	Batch ID: 2410	TestNo: SW 7471B	SW 7471B	Analysis Date: 4/23/2012	SeqNo: 51852						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.260	0.0167	0.2500	0	104	90	110				
Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	RunNo: 3879						
Client ID: CCV	Batch ID: 2410	TestNo: SW 7471B	SW 7471B	Analysis Date: 4/23/2012	SeqNo: 51853						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.258	0.0167	0.2500	0	103	90	110				

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 15 of 20

QC SUMMARY REPORT

WO#: 1204200
03-May-12

Specialty Analytical

Client: Wohlers Environmental Services, Inc.

Project: Lampros Steel / 120-0060

TestCode: PAHLL_S

Sample ID: CCV-2422	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:			RunNo: 3921				
Client ID: CCV	Batch ID: 2422	TestNo: SW8270D	SW 3545A	Analysis Date: 4/25/2012			SeqNo: 52355				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	68.7	6.67	66.67	0	103	80	120				
Acenaphthylene	70.0	6.67	66.67	0	105	80	120				
Anthracene	58.7	6.67	66.67	0	88.0	80	120				
Benz(a)anthracene	60.0	6.67	66.67	0	90.0	80	120				
Benzo(a)pyrene	61.3	6.67	66.67	0	92.0	80	120				
Benzo(b)fluoranthene	57.3	6.67	66.67	0	86.0	80	120				
Benzo(g,h,i)perylene	62.7	6.67	66.67	0	94.0	80	120				
Benzo(k)fluoranthene	69.3	6.67	66.67	0	104	80	120				
Chrysene	73.3	6.67	66.67	0	110	80	120				
Dibenz(a,h)anthracene	62.0	6.67	66.67	0	93.0	80	120				
Fluoranthene	72.0	6.67	66.67	0	108	80	120				
Fluorene	70.0	6.67	66.67	0	105	80	120				
Indeno(1,2,3-cd)pyrene	64.0	6.67	66.67	0	96.0	80	120				
Naphthalene	74.0	6.67	66.67	0	111	80	120				
Phenanthrene	68.0	6.67	66.67	0	102	80	120				
Pyrene	64.7	6.67	66.67	0	97.0	80	120				

Sample ID: LCS-2422	SampType: LCS	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 4/24/2012			RunNo: 3921				
Client ID: LCSS	Batch ID: 2422	TestNo: SW8270D	SW 3545A	Analysis Date: 4/25/2012			SeqNo: 52356				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	295	6.67	333.3	0	88.6	39.6	107				
Benzo(g,h,i)perylene	348	6.67	333.3	0	104	49.7	135				
Chrysene	357	6.67	333.3	0	107	57.1	130				
Naphthalene	268	6.67	333.3	0	80.4	29.1	109				

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 16 of 20

QC SUMMARY REPORT

WO#: 1204200
03-May-12

Specialty Analytical

Client: Wohlers Environmental Services, Inc.

Project: Lampros Steel / 120-0060

TestCode: PAHLL_S

Sample ID: LCS-2422	SampType: LCS	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 4/24/2012	RunNo: 3921					
Client ID: LCSS	Batch ID: 2422	TestNo: SW8270D	SW 3545A	Analysis Date: 4/25/2012	SeqNo: 52356					
Analyte										
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Phenanthrene	334	6.67	333.3	0	100	48.4	115			
Pyrene	367	6.67	333.3	0	110	47.2	134			

Sample ID: 1204200-002AMS	SampType: MS	TestCode: PAHLL_S	Units: µg/Kg-dry	Prep Date: 4/24/2012	RunNo: 3921					
Client ID: CB-7-9-11 Comp-SE	Batch ID: 2422	TestNo: SW8270D	SW 3545A	Analysis Date: 4/25/2012	SeqNo: 52357					
Analyte										
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	545	101	504.6	286.6	51.2	33.7	111			
Benzo(g,h,i)perylene	1,350	101	504.6	1,013	67.2	15	128			
Chrysene	1,610	101	504.6	1,655	-8.00	37.5	125			SMI
Naphthalene	444	101	504.6	119.1	64.4	27.7	108			
Phenanthrene	1,370	101	504.6	1,467	-18.8	20.2	139			SMI
Pyrene	1,990	101	504.6	1,889	19.6	26.8	142			SMI

Sample ID: 1204200-002AMSD	SampType: MSD	TestCode: PAHLL_S	Units: µg/Kg-dry	Prep Date: 4/24/2012	RunNo: 3921					
Client ID: CB-7-9-11 Comp-SE	Batch ID: 2422	TestNo: SW8270D	SW 3545A	Analysis Date: 4/25/2012	SeqNo: 52358					
Analyte										
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	999	101	504.6	286.6	141	33.7	111	545.0	58.8	20	SRMI
Benzo(g,h,i)perylene	2,730	101	504.6	1,013	339	15	128	1,352	67.3	20	SRMI
Chrysene	3,140	101	504.6	1,655	294	37.5	125	1,615	64.1	20	SRMI
Naphthalene	727	101	504.6	119.1	120	27.7	108	444.1	48.3	20	SRMI
Phenanthrene	2,320	101	504.6	1,467	169	20.2	139	1,373	51.4	20	SRMI
Pyrene	3,740	101	504.6	1,889	368	26.8	142	1,988	61.3	20	SRMI

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit	Page 17 of 20
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits			

QC SUMMARY REPORT

WO#: 1204200
03-May-12

Specialty Analytical

Client: Wohlers Environmental Services, Inc.

Project: Lampros Steel / 120-0060

TestCode: PAHLL_S

Sample ID: MB-2422	SampType: MBLK	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 4/24/2012	RunNo: 3921
Client ID: PBS	Batch ID: 2422	TestNo: SW8270D	SW 3545A	Analysis Date: 4/25/2012	SeqNo: 52359
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Acenaphthene	ND	6.67			
Acenaphthylene	ND	6.67			
Anthracene	ND	6.67			
Benz(a)anthracene	ND	6.67			
Benzo(a)pyrene	ND	6.67			
Benzo(b)fluoranthene	ND	6.67			
Benzo(g,h,i)perylene	ND	6.67			
Benzo(k)fluoranthene	ND	6.67			
Chrysene	ND	6.67			
Dibenz(a,h)anthracene	ND	6.67			
Fluoranthene	ND	6.67			
Fluorene	ND	6.67			
Indeno(1,2,3-cd)pyrene	ND	6.67			
Naphthalene	ND	6.67			
Phenanthrene	ND	6.67			
Pyrene	ND	6.67			
Surr: 2-Fluorobiphenyl	5,270	6,667	79.0	42.6	128
Surr: Nitrobenzene-d5	5,300	6,667	79.5	21.7	155
Surr: p-Terphenyl-d14	7,430	6,667	111	44.9	155

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 18 of 20

QC SUMMARY REPORT

WO#: 1204200
03-May-12

Specialty Analytical

Client: Wohlers Environmental Services, Inc.

Project: Lampros Steel / 120-0060

TestCode: TOC_S

Sample ID: LCS	SampType: LCS	TestCode: TOC_S	Units: mg/Kg-dry	Prep Date:	RunNo: 3923						
Client ID: LCSS	Batch ID: R3923	TestNo: SW9060		Analysis Date: 4/25/2012	SeqNo: 52363						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	2,800	100	2,500	0	112	80	120				
Sample ID: MBLK	SampType: MBLK	TestCode: TOC_S	Units: mg/Kg-dry	Prep Date:	RunNo: 3923						
Client ID: PBS	Batch ID: R3923	TestNo: SW9060		Analysis Date: 4/25/2012	SeqNo: 52364						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	ND	100									
Sample ID: 1204099-008ADUP	SampType: DUP	TestCode: TOC_S	Units: mg/Kg-dry	Prep Date:	RunNo: 3923						
Client ID: ZZZZZZ	Batch ID: R3923	TestNo: SW9060		Analysis Date: 4/25/2012	SeqNo: 52373						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	1,300	100				1,378	5.94	20			
Sample ID: CCV	SampType: CCV	TestCode: TOC_S	Units: mg/Kg-dry	Prep Date:	RunNo: 3923						
Client ID: CCV	Batch ID: R3923	TestNo: SW9060		Analysis Date: 4/26/2012	SeqNo: 52614						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	2,560	100	2,500	0	103	80	120				
Sample ID: CCB	SampType: CCB	TestCode: TOC_S	Units: mg/Kg-dry	Prep Date:	RunNo: 3923						
Client ID: CCB	Batch ID: R3923	TestNo: SW9060		Analysis Date: 4/26/2012	SeqNo: 52615						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	ND	100									

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 19 of 20

QC SUMMARY REPORT

WO#: 1204200
03-May-12

Specialty Analytical

Client: Wohlers Environmental Services, Inc.

Project: Lampros Steel / 120-0060

TestCode: TOC_S

Sample ID: CCV	SampType: CCV	TestCode: TOC_S	Units: mg/Kg-dry	Prep Date:	RunNo: 3923						
Client ID: CCV	Batch ID: R3923	TestNo: SW9060		Analysis Date: 4/26/2012	SeqNo: 52618						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	2,800	100	2,500	0	112	80	120				

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 20 of 20

KEY TO FLAGS

Rev. May 12, 2010

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
- A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
- A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
- A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
- A4 The product appears to be aged or degraded diesel.
- B The blank exhibited a positive result greater than the reporting limit for this compound.
- CN See Case Narrative.
- D Result is based from a dilution.
- E Result exceeds the calibration range for this compound. The result should be considered as estimate.
- F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
- G Result may be biased high due to biogenic interferences. Clean up is recommended.
- H Sample was analyzed outside recommended holding time.
- HT At clients request, samples was analyzed outside of recommended holding time.
- J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
- K Diesel result is biased high due to amount of Oil contained in the sample.
- L Diesel result is biased high due to amount of Gasoline contained in the sample.
- M Oil result is biased high due to amount of Diesel contained in the sample.
- MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
- MI Result is outside control limits due to matrix interference.
- MSA Value determined by Method of Standard Addition.
- O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
- Q Detection levels elevated due to sample matrix.
- R RPD control limits were exceeded.
- RF Duplicate failed due to result being at or near the method-reporting limit.
- RP Matrix spike values exceed established QC limits; post digestion spike is in control.
- S Recovery is outside control limits.
- SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- * The result for this parameter was greater than the maximum contaminant level of the TCLP regulatory limit.



7440 S.W. Hunziker Street, Suite C
Tigard, OR 97223
Phone: (503) 670-1344
Fax: (503) 670-1701

CHAIN OF CUSTODY RECORD

1204200

Date: 4/20/2012 Page 1 of 1

PO No. / Project No. 12-0060

Laboratory
Job No.

Project Name: Lampros Steel

Project Manager: Joanne Task

TURNAROUND:

3-5 Day: _____
7-10 Day: _____

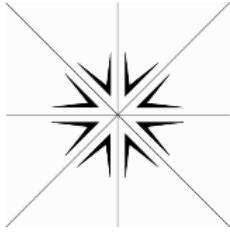
RUSH:

24-Hour _____
48-Hour _____

Special Instructions: see attach target m/s
TPHDx with S. laengel cleanup
metals: Al, Sb, As, Cd, Cr, Cu, Pb, Mn, Hg, Ni and Zn

Sample ID	Date	Time	Matrix	No. of Containers	Lab ID	NWTPH-Gx	NWTPH-DX S/laengel cleanup	BTEX - EPA 8020m	RBDM VOC - EPA 8260	NWTPH-HCID	Dissolved Lead	TCLP - Lead	PAHs - EPA 8270 - 5pm	Full Panel VOC - EPA 8260/8340	TOC	PCBs Industrial EPA 8082	Dithiophates	Total metals	HOLI m/s
1. CB6-SEN	4/20/12	0805	Sed	3		X							X						
2. CB-7-9-11 comp-SEN	4/20/12	0900	Sed	3		X							X						
3.																			
4.																			
5.																			
6.																			
7.																			
8.																			
9.																			
10.																			
11.																			
12.																			
13.																			
14.																			
15.																			

Relinquished By: Sign: <i>E. Cummings</i> Print: <i>Evelyn Cummings</i>	Date: <u>4/20/12</u> Time: <u>1435</u>	Received By: Sign: <i>Rachel Moore</i> Print: <i>Rachel Moore</i>	Relinquished By: Sign: <i>Rachel Moore</i> Print: <i>Rachel Moore</i>	Date: <u>4/20/12</u> Time: <u>1515</u>	Received By Laboratory: Sign: <i>Cindy Hiltzard</i> Print: <i>Cindy Hiltzard</i>
Wohlers Environmental		Company: <i>SA</i>	Company: <i>SA</i>		Laboratory: <i>SA</i>



Specialty Analytical

11711 SE Capps Road, Ste B
Clackamas, Oregon 97015
TEL: 503-607-1331 FAX: 503-607-1336
Website: www.specialtyanalytical.com

November 25, 2013

Scott Miller
SLR International Corp.
1800 Blankenship Rd.
Ste 440
West Linn, OR 97068

TEL: (503) 723-4423
FAX
RE: Lampros Properties / 108.00895.00001

Dear Scott Miller: Order No.: 1311076

Specialty Analytical received 1 sample(s) on 11/7/2013 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications, except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

Marty French
Lab Director

Case Narrative

WO#: 1311076

Date: 11/25/2013

Specialty Analytical

CLIENT: SLR International Corp.

Project: Lampros Properties / 108.00895.00001

Client Sample ID "Solids-2" contains an Aroclor most closely identified as Aroclor 1260, but has some discrepancies in the elution pattern. The sample was quantified using Aroclor 1260. Use of EPA 1668 or similar method may be utilized to further quantify the Total PCB concentration.

Specialty Analytical

Date Reported: 25-Nov-13

CLIENT: SLR International Corp. Collection Date: 11/7/2013 11:05:00 AM

Project: Lampros Properties / 108.00895.00001

Lab ID: 1311076-001

Client Sample ID: Solids-2

Matrix: SOLID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NWTPH-HCID						
Gasoline	ND	24.5		mg/Kg-dry	1	11/12/2013 11:24:41 AM
Mineral Spirits	ND	24.5		mg/Kg-dry	1	11/12/2013 11:24:41 AM
Kerosene	ND	61.1		mg/Kg-dry	1	11/12/2013 11:24:41 AM
Diesel	DIESEL	61.1		mg/Kg-dry	1	11/12/2013 11:24:41 AM
Lube Oil	LUBE OIL	122		mg/Kg-dry	1	11/12/2013 11:24:41 AM
Surr: BFB	83.4	50-150		%REC	1	11/12/2013 11:24:41 AM
Surr: o-Terphenyl	94.2	50-150		%REC	1	11/12/2013 11:24:41 AM
NWTPH-DX						
Diesel	87.9	18.3	A1	mg/Kg-dry	1	11/19/2013 11:13:29 PM
Lube Oil	518	61.1		mg/Kg-dry	1	11/19/2013 11:13:29 PM
Surr: o-Terphenyl	71.6	50-150		%REC	1	11/19/2013 11:13:29 PM
ICP/MS METALS-TOTAL RECOVERABLE		SW6020A				
Aluminum	4880000	9260		µg/Kg	100	11/20/2013 2:25:00 PM
Antimony	ND	463	Q	µg/Kg	10	11/20/2013 12:49:00 PM
Arsenic	1390	92.6		µg/Kg	1	11/20/2013 3:40:00 PM
Cadmium	247	92.6		µg/Kg	10	11/20/2013 12:49:00 PM
Chromium	39800	926		µg/Kg	10	11/20/2013 12:49:00 PM
Copper	40600	463		µg/Kg	10	11/20/2013 12:49:00 PM
Lead	14800	231		µg/Kg	10	11/20/2013 12:49:00 PM
Manganese	579000	4630		µg/Kg	100	11/20/2013 2:25:00 PM
Nickel	28500	463		µg/Kg	10	11/20/2013 12:49:00 PM
Silver	74.1	9.26		µg/Kg	1	11/20/2013 3:40:00 PM
Zinc	134000	92600		µg/Kg	100	11/20/2013 2:25:00 PM
TOTAL MERCURY		SW 7471B				
Mercury	0.0321	0.0155		mg/Kg	1	11/20/2013 10:42:00 AM
SEMI-VOLATILE COMPOUNDS - BASE/NEUTRAL SW8270D						
Bis(2-ethylhexyl)phthalate	126	33.3		µg/Kg	1	11/19/2013 3:52:00 PM
Butyl benzyl phthalate	ND	33.3		µg/Kg	1	11/19/2013 3:52:00 PM
Diethyl phthalate	ND	33.3		µg/Kg	1	11/19/2013 3:52:00 PM
Dimethyl phthalate	ND	33.3		µg/Kg	1	11/19/2013 3:52:00 PM
Di-n-butyl phthalate	ND	33.3		µg/Kg	1	11/19/2013 3:52:00 PM
Di-n-octyl phthalate	ND	33.3		µg/Kg	1	11/19/2013 3:52:00 PM
Surr: 2-Fluorobiphenyl	45.6	52.6-93.2	SMI	%REC	1	11/19/2013 3:52:00 PM
Surr: 4-Terphenyl-d14	83.5	49.8-118		%REC	1	11/19/2013 3:52:00 PM
Surr: Nitrobenzene-d5	45.9	44.8-103		%REC	1	11/19/2013 3:52:00 PM

Specialty Analytical

Date Reported: 25-Nov-13

CLIENT: SLR International Corp. **Collection Date:** 11/7/2013 11:05:00 AM
Project: Lampros Properties / 108.00895.00001
Lab ID: 1311076-001
Client Sample ID: Solids-2 **Matrix:** SOLID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PAH'S BY GC/MS - LOW LEVEL						
2-Methylnaphthalene	ND	13.3		µg/Kg	1	11/19/2013 6:03:00 PM
Acenaphthene	24.5	13.3		µg/Kg	1	11/19/2013 6:03:00 PM
Acenaphthylene	16.2	13.3		µg/Kg	1	11/19/2013 6:03:00 PM
Anthracene	42.6	13.3		µg/Kg	1	11/19/2013 6:03:00 PM
Benz(a)anthracene	68.7	13.3		µg/Kg	1	11/19/2013 6:03:00 PM
Benzo(a)pyrene	95.0	13.3		µg/Kg	1	11/19/2013 6:03:00 PM
Benzo(b)fluoranthene	118	13.3		µg/Kg	1	11/19/2013 6:03:00 PM
Benzo(g,h,i)perylene	75.9	13.3		µg/Kg	1	11/19/2013 6:03:00 PM
Benzo(k)fluoranthene	37.4	13.3		µg/Kg	1	11/19/2013 6:03:00 PM
Chrysene	102	13.3		µg/Kg	1	11/19/2013 6:03:00 PM
Dibenz(a,h)anthracene	21.1	13.3		µg/Kg	1	11/19/2013 6:03:00 PM
Fluoranthene	171	13.3		µg/Kg	1	11/19/2013 6:03:00 PM
Fluorene	22.1	13.3		µg/Kg	1	11/19/2013 6:03:00 PM
Indeno(1,2,3-cd)pyrene	59.3	13.3		µg/Kg	1	11/19/2013 6:03:00 PM
Naphthalene	ND	13.3		µg/Kg	1	11/19/2013 6:03:00 PM
Phenanthrene	170	13.3		µg/Kg	1	11/19/2013 6:03:00 PM
Pyrene	282	13.3		µg/Kg	1	11/19/2013 6:03:00 PM
Surr: 2-Fluorobiphenyl	126	42.6-128		%REC	1	11/19/2013 6:03:00 PM
Surr: Nitrobenzene-d5	84.2	21.7-155		%REC	1	11/19/2013 6:03:00 PM
Surr: p-Terphenyl-d14	91.4	44.9-155		%REC	1	11/19/2013 6:03:00 PM
PCB'S IN SOLIDS						
Aroclor 1016	ND	0.333		µg/Kg	1	11/15/2013 9:24:28 PM
Aroclor 1221	ND	0.333		µg/Kg	1	11/15/2013 9:24:28 PM
Aroclor 1232	ND	0.333		µg/Kg	1	11/15/2013 9:24:28 PM
Aroclor 1242	ND	0.333		µg/Kg	1	11/15/2013 9:24:28 PM
Aroclor 1248	ND	0.333		µg/Kg	1	11/15/2013 9:24:28 PM
Aroclor 1254	ND	0.333		µg/Kg	1	11/15/2013 9:24:28 PM
Aroclor 1260	30.7	0.333	CN	µg/Kg	1	11/15/2013 9:24:28 PM
Aroclor 1262	ND	0.333		µg/Kg	1	11/15/2013 9:24:28 PM
Aroclor 1268	ND	0.333		µg/Kg	1	11/15/2013 9:24:28 PM
Surr: Decachlorobiphenyl	70.7	56.5-130		%REC	1	11/15/2013 9:24:28 PM
ORGANIC CARBON, TOTAL						
Total Organic Carbon	6840	122		mg/Kg-dry	1	11/8/2013 11:20:00 AM

QC SUMMARY REPORT

WO#: 1311076
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: 6020_S

Sample ID: ICV	SampType: ICV	TestCode: 6020_S	Units: µg/Kg	Prep Date:			RunNo: 12494				
Client ID: ICV	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013			SeqNo: 159983				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	48600	100	50000	0	97.2	90	110				B
Antimony	5210	50.0	5000	0	104	90	110				
Arsenic	5030	100	5000	0	101	90	110				
Cadmium	5100	10.0	5000	0	102	90	110				
Chromium	5200	100	5000	0	104	90	110				
Copper	5350	50.0	5000	0	107	90	110				
Lead	5060	25.0	5000	0	101	90	110				
Manganese	5190	50.0	5000	0	104	90	110				B
Nickel	5210	50.0	5000	0	104	90	110				B
Zinc	4920	1000	5000	0	98.4	90	110				

Sample ID: ICV Ag	SampType: ICV	TestCode: 6020_S	Units: µg/Kg	Prep Date:			RunNo: 12494				
Client ID: ICV	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013			SeqNo: 159984				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	5260	10.0	5000	0	105	90	110				

Sample ID: MB-6288	SampType: MBLK	TestCode: 6020_S	Units: µg/Kg	Prep Date: 11/18/2013			RunNo: 12494				
Client ID: PBS	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013			SeqNo: 159985				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	673	100									
Antimony	ND	50.0									

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 1 of 26

QC SUMMARY REPORT

WO#: 1311076
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: 6020_S

Sample ID: MB-6288	SampType: MBLK	TestCode: 6020_S	Units: µg/Kg	Prep Date: 11/18/2013	RunNo: 12494
Client ID: PBS	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013	SeqNo: 159985
Analyte					
Arsenic	Result	PQL	SPK value	SPK Ref Val	%REC
ND	100				
Cadmium		ND	10.0		
Chromium		ND	100		
Copper		ND	50.0		
Lead		ND	25.0		
Manganese		81.2	50.0		
Nickel		116	50.0		
Silver		ND	10.0		
Zinc		ND	1000		

Sample ID: LCS-6288	SampType: LCS	TestCode: 6020_S	Units: µg/Kg	Prep Date: 11/18/2013	RunNo: 12494
Client ID: LCSS	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013	SeqNo: 159986
Analyte					
Antimony	Result	PQL	SPK value	SPK Ref Val	%REC
4280	50.0	5000	0	85.7	74.1
Arsenic		100	5000	0	76.4
Cadmium		10.0	5000	0	84.5
Copper		5120	5000	0	102
Lead		5200	5000	0	104
Silver		4710	10.0	5000	94.2
Zinc		3710	1000	5000	74.1
				12.3	165
				69	129

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 2 of 26

QC SUMMARY REPORT

WO#: 1311076
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: 6020_S

Sample ID: 1310151-013ADUP	SampType: DUP	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 11/18/2013	RunNo: 12494
Client ID: ZZZZZZ	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013	SeqNo: 159988
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Antimony	ND	710			0
Arsenic	4580	1420			5118
Cadmium	417	142			418.6
Copper	40900	710			47050
Lead	41000	355			43530
Nickel	15700	710			16780
Silver	165	142			220.7
Zinc	134000	14200			116800
					13.5
					20
					RF

Sample ID: 1310151-013AMS	SampType: MS	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 11/18/2013	RunNo: 12494
Client ID: ZZZZZZ	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013	SeqNo: 159989
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Antimony	2000	683	6828	227.9	25.9
Arsenic	12000	1370	6828	5118	100
Cadmium	6630	137	6828	418.6	91.0
Copper	66400	683	6828	47050	283
Lead	82400	341	6828	43530	569
Nickel	21100	683	6828	16780	63.3
Silver	2660	137	6828	220.7	35.7
					70
					130
					S
					SMC
					SMC
					SMC
					S

Qualifiers:	B Analyte detected in the associated Method Blank	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit	Page 3 of 26
O RSD is greater than RSDlimit	R RPD outside accepted recovery limits	S Spike Recovery outside accepted reco		

QC SUMMARY REPORT

WO#: 1311076
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: 6020_S

Sample ID: 1310151-013AMSD	SampType: MSD	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 11/18/2013	RunNo: 12494
Client ID: ZZZZZZ	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013	SeqNo: 159990
Analyte					
Antimony	1090	634	6341	227.9	13.5 70 130 1995 59.0 20 SR
Arsenic	6270	1270	6341	5118	18.1 70 130 11980 62.6 20 SR
Cadmium	3410	127	6341	418.6	47.2 70 130 6635 64.1 20 SR
Copper	29700	634	6341	47050	-273 70 130 66400 76.3 20 SRMC
Lead	40800	317	6341	43530	-42.9 70 130 82350 67.5 20 SRMC
Nickel	10100	634	6341	16780	-105 70 130 21100 70.2 20 SRMC
Silver	1640	127	6341	220.7	22.3 70 130 2660 47.7 20 SR
Zinc	72700	12700	6341	116800	-694 70 130 144600 66.1 20 SRMC

Sample ID: CCV Ag	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	RunNo: 12494
Client ID: CCV	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013	SeqNo: 159992
Analyte					
Silver	5440	10.0	5000	0 109 90 110	

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	RunNo: 12494
Client ID: CCV	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013	SeqNo: 160001
Analyte					
Aluminum	52300	100	50000	0 105 90 110	B
Antimony	5300	50.0	5000	0 106 90 110	
Arsenic	4920	100	5000	0 98.4 90 110	
Cadmium	5210	10.0	5000	0 104 90 110	

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSdlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco'

Page 4 of 26

QC SUMMARY REPORT

WO#: 1311076
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: 6020_S

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:			RunNo: 12494				
Client ID: CCV	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013			SeqNo: 160001				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	4930	100	5000	0	98.6	90	110				
Copper	5030	50.0	5000	0	101	90	110				
Lead	5240	25.0	5000	0	105	90	110				
Manganese	5110	50.0	5000	0	102	90	110				B
Nickel	4720	50.0	5000	0	94.5	90	110				B
Zinc	4750	1000	5000	0	95.0	90	110				

Sample ID: 1310151-013ADUP	SampType: DUP	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date:	11/18/2013	RunNo: 12494					
Client ID: ZZZZZZ	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date:	11/20/2013	SeqNo: 160003					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	14100000	14200				15720000			11.0	20	
Chromium	203000	14200				180600			11.6	20	
Manganese	351000	7100				292000			18.5	20	

Sample ID: 1310151-013AMS	SampType: MS	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date:	11/18/2013	RunNo: 12494					
Client ID: ZZZZZZ	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date:	11/20/2013	SeqNo: 160004					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	12200000	13700	68280	15720000	-5200	70	130				SMC
Chromium	232000	13700	6828	180600	760	70	130				SMC
Manganese	286000	6830	6828	292000	-83.6	70	130				SMC
Zinc	141000	137000	6828	114600	387	70	130				SMC

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDLimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco

Page 5 of 26

QC SUMMARY REPORT

WO#: 1311076
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: 6020_S

Sample ID: 1310151-013AMS	SampType: MS	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 11/18/2013	RunNo: 12494
Client ID: ZZZZZZ	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013	SeqNo: 160004
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sample ID: 1310151-013AMSD	SampType: MSD	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 11/18/2013	RunNo: 12494
Client ID: ZZZZZZ	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013	SeqNo: 160005
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Aluminum	7230000	12700	63410	15720000	-13400 70 130 12160000 50.9 20 SRMC
Chromium	141000	12700	6341	180600	-620 70 130 232400 48.8 20 SRMC
Manganese	148000	6340	6341	292000	-2270 70 130 286200 63.5 20 SRMC

Sample ID: CCV Ag	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	RunNo: 12494
Client ID: CCV	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013	SeqNo: 160108
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Silver	5440	10.0	5000	0	109 90 110

Sample ID: LCS-6288	SampType: LCS	TestCode: 6020_S	Units: µg/Kg	Prep Date: 11/18/2013	RunNo: 12494
Client ID: LCSS	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013	SeqNo: 160109
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Aluminum	52200	100	50000	0	104 80 120
Chromium	5030	100	5000	0	101 80 120
Nickel	4710	50.0	5000	0	94.2 80 120

Qualifiers:	B Analyte detected in the associated Method Blank	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit	Page 6 of 26
O RSD is greater than RSDLimit	R RPD outside accepted recovery limits	S Spike Recovery outside accepted reco		

QC SUMMARY REPORT

WO#: 1311076
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: 6020_S

Sample ID: LCS-6288	SampType: LCS	TestCode: 6020_S	Units: µg/Kg	Prep Date: 11/18/2013	RunNo: 12494
Client ID: LCSS	Batch ID: 6288	TestNo: SW6020A SW3050B		Analysis Date: 11/20/2013	SeqNo: 160109
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sample ID: ICV	SampType: ICV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	RunNo: 12494
Client ID: ICV	Batch ID: 6288	TestNo: SW6020A SW3050B		Analysis Date: 11/22/2013	SeqNo: 161345
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	5320	50.0	5000	0	106 90 110 B

Sample ID: LCS-6288	SampType: LCS	TestCode: 6020_S	Units: µg/Kg	Prep Date: 11/18/2013	RunNo: 12494
Client ID: LCSS	Batch ID: 6288	TestNo: SW6020A SW3050B		Analysis Date: 11/22/2013	SeqNo: 161346
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	5240	50.0	5000	0	105 80 120 B

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	RunNo: 12494
Client ID: CCV	Batch ID: 6288	TestNo: SW6020A SW3050B		Analysis Date: 11/22/2013	SeqNo: 161347
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	5230	50.0	5000	0	105 90 110 B

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 7 of 26

QC SUMMARY REPORT

WO#: 1311076
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: 8082LL_S

Sample ID: MB-6245	SampType: MBLK	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 11/12/2013	RunNo: 12516						
Client ID: PBS	Batch ID: 6245	TestNo: SW 8082A	3545_8082LL	Analysis Date: 11/15/2013	SeqNo: 160352						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.333									
Aroclor 1221	ND	0.333									
Aroclor 1232	ND	0.333									
Aroclor 1242	ND	0.333									
Aroclor 1248	ND	0.333									
Aroclor 1254	ND	0.333									
Aroclor 1260	ND	0.333									
Aroclor 1262	ND	0.333									
Aroclor 1268	ND	0.333									
Surr: Decachlorobiphenyl	5390		6667		80.9	56.5	130				

Sample ID: LCS-6245	SampType: LCS	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 11/12/2013	RunNo: 12516						
Client ID: LCSS	Batch ID: 6245	TestNo: SW 8082A	3545_8082LL	Analysis Date: 11/15/2013	SeqNo: 160353						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1260	51.4	0.333	66.67	0	77.1	44.3	137				

Sample ID: 1311076-001BMS	SampType: MS	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 11/12/2013	RunNo: 12516						
Client ID: Solids-2	Batch ID: 6245	TestNo: SW 8082A	3545_8082LL	Analysis Date: 11/15/2013	SeqNo: 160355						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1260	46.0	0.333	66.67	0	69.0	56.6	123				

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco'

Page 8 of 26

QC SUMMARY REPORT

WO#: 1311076
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: 8082LL_S

Sample ID: 1311076-001BMSD	SampType: MSD	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 11/12/2013	RunNo: 12516
Client ID: Solids-2	Batch ID: 6245	TestNo: SW 8082A	3545_8082LL	Analysis Date: 11/15/2013	SeqNo: 160356
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Aroclor 1016/1260	50.0	0.333	66.67	0	75.0
				56.6	123
				46.00	8.33
					20

Sample ID: CCV 1016/1260 1.0	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	RunNo: 12516
Client ID: CCV	Batch ID: 6245	TestNo: SW 8082A	3545_8082LL	Analysis Date: 11/15/2013	SeqNo: 160359
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Aroclor 1016/1260	63.5	0.333	66.67	0	95.2
Aroclor 1260	62.5	0.333	66.67	0	93.7
				85	115
				85	115

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSdlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 9 of 26

QC SUMMARY REPORT

WO#: 1311076
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: 8270BN_S

Sample ID: LCS-6239	SampType: LCS	TestCode: 8270BN_S	Units: µg/Kg	Prep Date: 11/12/2013	RunNo: 12470
Client ID: LCSS	Batch ID: 6239	TestNo: SW8270D	SW 3545A	Analysis Date: 11/19/2013	SeqNo: 159591
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Bis(2-ethylhexyl)phthalate	946	33.3	1666	0	56.7
Butyl benzyl phthalate	965	33.3	1666	0	57.9
Diethyl phthalate	956	33.3	1666	0	57.4
Dimethyl phthalate	903	33.3	1666	0	54.2
Di-n-butyl phthalate	1060	33.3	1666	0	63.6
Di-n-octyl phthalate	1010	33.3	1666	0	60.8
				LowLimit	HighLimit
				50	150

Sample ID: MB-6239	SampType: MBLK	TestCode: 8270BN_S	Units: µg/Kg	Prep Date: 11/12/2013	RunNo: 12470
Client ID: PBS	Batch ID: 6239	TestNo: SW8270D	SW 3545A	Analysis Date: 11/19/2013	SeqNo: 159592
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Bis(2-ethylhexyl)phthalate	ND	33.3			
Butyl benzyl phthalate	ND	33.3			
Diethyl phthalate	ND	33.3			
Dimethyl phthalate	ND	33.3			
Di-n-butyl phthalate	ND	33.3			
Di-n-octyl phthalate	ND	33.3			
Surr: 2-Fluorobiphenyl	1880		3333	56.3	52.6
Surr: 4-Terphenyl-d14	2690		3333	80.7	49.8
Surr: Nitrobenzene-d5	2080		3333	62.5	44.8
				HighLimit	
				103	

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSdlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 10 of 26

QC SUMMARY REPORT

WO#: 1311076
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: 8270BN_S

Sample ID: 1311004-001BMS	SampType: MS	TestCode: 8270BN_S	Units: µg/Kg	Prep Date: 11/12/2013	RunNo: 12470
Client ID: ZZZZZZ	Batch ID: 6239	TestNo: SW8270D	SW 3545A	Analysis Date: 11/19/2013	SeqNo: 159596
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Bis(2-ethylhexyl)phthalate	1340	33.3	1666	589.3	45.3
Butyl benzyl phthalate	809	33.3	1666	22.00	47.2
Diethyl phthalate	754	33.3	1666	0	45.2
Dimethyl phthalate	700	33.3	1666	0	42.0
Di-n-butyl phthalate	886	33.3	1666	41.67	50.7
Di-n-octyl phthalate	785	33.3	1666	28.67	45.4

Sample ID: 1311004-001BMSD	SampType: MSD	TestCode: 8270BN_S	Units: µg/Kg	Prep Date: 11/12/2013	RunNo: 12470
Client ID: ZZZZZZ	Batch ID: 6239	TestNo: SW8270D	SW 3545A	Analysis Date: 11/19/2013	SeqNo: 159597
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Bis(2-ethylhexyl)phthalate	2700	33.3	1666	589.3	127
Butyl benzyl phthalate	811	33.3	1666	22.00	47.3
Diethyl phthalate	729	33.3	1666	0	43.7
Dimethyl phthalate	744	33.3	1666	0	44.6
Di-n-butyl phthalate	857	33.3	1666	41.67	48.9
Di-n-octyl phthalate	978	33.3	1666	28.67	56.9

Sample ID: CCV-6239	SampType: CCV	TestCode: 8270BN_S	Units: µg/Kg	Prep Date:	RunNo: 12470
Client ID: CCV	Batch ID: 6239	TestNo: SW8270D	SW 3545A	Analysis Date: 11/19/2013	SeqNo: 159599
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC

Bis(2-ethylhexyl)phthalate	1450	33.3	1333	0	108	80	120
----------------------------	------	------	------	---	-----	----	-----

Qualifiers:	B Analyte detected in the associated Method Blank	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit	Page 11 of 26
O RSD is greater than RSDlimit	R RPD outside accepted recovery limits	S Spike Recovery outside accepted reco		

QC SUMMARY REPORT

WO#: 1311076
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: 8270BN_S

Sample ID: CCV-6239	SampType: CCV	TestCode: 8270BN_S	Units: µg/Kg	Prep Date:			RunNo: 12470				
Client ID: CCV	Batch ID: 6239	TestNo: SW8270D	SW 3545A	Analysis Date: 11/19/2013			SeqNo: 159599				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	1530	33.3	1333	0	114	80	120				
Diethyl phthalate	1410	33.3	1333	0	105	80	120				
Dimethyl phthalate	1360	33.3	1333	0	102	80	120				
Di-n-butyl phthalate	1460	33.3	1333	0	110	80	120				
Di-n-octyl phthalate	1500	33.3	1333	0	112	80	120				

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 12 of 26

QC SUMMARY REPORT

WO#: 1311076
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: HCID_NW

Sample ID: MB-6236	SampType: MBLK	TestCode: HCID_NW	Units: mg/Kg	Prep Date: 11/11/2013	RunNo: 12353						
Client ID: PBS	Batch ID: 6236	TestNo: NWHCID		Analysis Date: 11/12/2013	SeqNo: 158099						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	20.0									
Mineral Spirits	ND	20.0									
Kerosene	ND	50.0									
Diesel	ND	50.0									
Lube Oil	ND	100									
Surr: BFB	93.4		100.0		93.4	50	150				
Surr: o-Terphenyl	90.6		100.0		90.6	50	150				

Sample ID: 1311076-001ADUP	SampType: DUP	TestCode: HCID_NW	Units: mg/Kg-dry	Prep Date: 11/11/2013	RunNo: 12353						
Client ID: Solids-2	Batch ID: 6236	TestNo: NWHCID		Analysis Date: 11/12/2013	SeqNo: 158101						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	24.5				0	0	20			
Mineral Spirits	ND	24.5				0	0	20			
Kerosene	ND	61.1				0	0	20			
Diesel	DIESEL	61.1				100.6	5.05	20			
Lube Oil	LUBE OIL	122				876.8	17.5	20			

Sample ID: 131104-001ADUP	SampType: DUP	TestCode: HCID_NW	Units: mg/Kg-dry	Prep Date: 11/11/2013	RunNo: 12353						
Client ID: ZZZZZZ	Batch ID: 6236	TestNo: NWHCID		Analysis Date: 11/12/2013	SeqNo: 158103						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	22.3				0	0	20			

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 13 of 26

QC SUMMARY REPORT

WO#: 1311076
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: HCID_NW

Sample ID: 1311104-001ADUP	SampType: DUP	TestCode: HCID_NW	Units: mg/Kg-dry	Prep Date: 11/11/2013	RunNo: 12353
Client ID: ZZZZZZ	Batch ID: 6236	TestNo: NWHCID		Analysis Date: 11/12/2013	SeqNo: 158103
Analyte					
Mineral Spirits	ND	22.3		0	0 20
Kerosene	ND	55.8		0	0 20
Diesel	DIESEL	55.8		0	0 20 RF
Lube Oil	LUBE OIL	112		157.0	20.1 20 R

Sample ID: 1311108-001ADUP	SampType: DUP	TestCode: HCID_NW	Units: mg/Kg-dry	Prep Date: 11/11/2013	RunNo: 12353
Client ID: ZZZZZZ	Batch ID: 6236	TestNo: NWHCID		Analysis Date: 11/12/2013	SeqNo: 158113
Analyte					
Gasoline	ND	21.7		0	0 20
Mineral Spirits	ND	21.7		0	0 20
Kerosene	ND	54.2		0	0 20
Diesel	DIESEL	54.2		0	0 20 RF
Lube Oil	LUBE OIL	108		224.3	25.3 20 R

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSdlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 14 of 26

QC SUMMARY REPORT

WO#: 1311076
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: HG_CTS

Sample ID: MB-R12481	SampType: MBLK	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	RunNo: 12481
Client ID: PBS	Batch ID: 6295	TestNo: SW 7471B	SW 7471B	Analysis Date: 11/20/2013	SeqNo: 159803
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	ND	0.0167			

Sample ID: LCS-R12481	SampType: LCS	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	RunNo: 12481
Client ID: LCSS	Batch ID: 6295	TestNo: SW 7471B	SW 7471B	Analysis Date: 11/20/2013	SeqNo: 159804
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	0.392	0.0167	0.4000	0	97.9 80 120

Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	RunNo: 12481
Client ID: CCV	Batch ID: 6295	TestNo: SW 7471B	SW 7471B	Analysis Date: 11/20/2013	SeqNo: 159811
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	0.439	0.0167	0.4000	0	110 90 110

Sample ID: 1311004-001BDUP	SampType: DUP	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 11/19/2013	RunNo: 12481
Client ID: ZZZZZZ	Batch ID: 6295	TestNo: SW 7471B	SW 7471B	Analysis Date: 11/20/2013	SeqNo: 159813
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	0.0202	0.0155			0.2057 164 20 RMI

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit	Page 15 of 26
O	RSD is greater than RSDLimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco		

QC SUMMARY REPORT

WO#: 1311076
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: HG_CTS

Sample ID: 1311004-001BMS	SampType: MS	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 11/19/2013	RunNo: 12481
Client ID: ZZZZZZ	Batch ID: 6295	TestNo: SW 7471B	SW 7471B	Analysis Date: 11/20/2013	SeqNo: 159814
Analyte					
Mercury	Result	PQL	SPK value	SPK Ref Val	%REC
	0.343	0.0155	0.3704	0.2057	37.1
					75
					125
					SMI

Sample ID: 1311004-001BMSD	SampType: MSD	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 11/19/2013	RunNo: 12481
Client ID: ZZZZZZ	Batch ID: 6295	TestNo: SW 7471B	SW 7471B	Analysis Date: 11/20/2013	SeqNo: 159815
Analyte					
Mercury	Result	PQL	SPK value	SPK Ref Val	%REC
	0.641	0.0161	0.3846	0.2057	113
					75
					125
					0.3432
					60.4
					20
					RMI

Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	RunNo: 12481
Client ID: CCV	Batch ID: 6295	TestNo: SW 7471B	SW 7471B	Analysis Date: 11/20/2013	SeqNo: 159868
Analyte					
Mercury	Result	PQL	SPK value	SPK Ref Val	%REC
	0.388	0.0167	0.4000	0	97.0
					90
					110

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
O		RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco

Page 16 of 26

QC SUMMARY REPORT

WO#: 1311076
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: NWTPHDX_S

Sample ID: LCS-6284	SampType: LCS	TestCode: NWTPHDX_S Units: mg/Kg			Prep Date: 11/15/2013			RunNo: 12482			
Client ID: LCSS	Batch ID: 6284	TestNo: NWTPH-Dx SW3545A			Analysis Date: 11/19/2013			SeqNo: 159823			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	185	15.0	166.5	0	111	76.3	125				
Lube Oil	148	50.0	166.5	0	89.1	69.9	127				

Sample ID: MB-6284	SampType: MBLK	TestCode: NWTPHDX_S Units: mg/Kg			Prep Date: 11/15/2013			RunNo: 12482			
Client ID: PBS	Batch ID: 6284	TestNo: NWTPH-Dx SW3545A			Analysis Date: 11/19/2013			SeqNo: 159824			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	15.0									
Lube Oil	ND	50.0									
Surr: o-Terphenyl	24.0		33.30		72.1	50	150				

Sample ID: 1311104-009ADUP	SampType: DUP	TestCode: NWTPHDX_S Units: mg/Kg-dry			Prep Date: 11/15/2013			RunNo: 12482			
Client ID: ZZZZZZ	Batch ID: 6284	TestNo: NWTPH-Dx SW3545A			Analysis Date: 11/19/2013			SeqNo: 159834			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	78.5	18.0						53.06	38.7	20	RA1H
Lube Oil	169	60.1						131.9	24.7	20	RH

Sample ID: 1311108-002ADUP	SampType: DUP	TestCode: NWTPHDX_S Units: mg/Kg-dry			Prep Date: 11/15/2013			RunNo: 12482			
Client ID: ZZZZZZ	Batch ID: 6284	TestNo: NWTPH-Dx SW3545A			Analysis Date: 11/19/2013			SeqNo: 159844			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 17 of 26

QC SUMMARY REPORT

WO#: 1311076
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: NWTPHDX_S

Sample ID: 1311108-002ADUP	SampType: DUP	TestCode: NWTPHDX_S	Units: mg/Kg-dry	Prep Date: 11/15/2013	RunNo: 12482		
Client ID: ZZZZZZ	Batch ID: 6284	TestNo: NWTPH-Dx	SW3545A	Analysis Date: 11/19/2013	SeqNo: 159844		
Analyte							
Diesel	Result	PQL	SPK value	SPK Ref Val	%REC		
2060	33.4				LowLimit		
Lube Oil	2210	111			HighLimit		
				RPD Ref Val	RPD		
				1254	48.7	20	RA1
				1364	47.5	20	RA2

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	RunNo: 12482
Client ID: CCV	Batch ID: 6284	TestNo: NWTPH-Dx	SW3545A	Analysis Date: 11/19/2013	SeqNo: 159845
Analyte					
Diesel	Result	PQL	SPK value	SPK Ref Val	%REC
978	15.0	1014	0	96.4	85
Lube Oil	478	50.0	522.7	0	91.4
				85	115
				115	

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	RunNo: 12482
Client ID: CCV	Batch ID: 6284	TestNo: NWTPH-Dx	SW3545A	Analysis Date: 11/19/2013	SeqNo: 159846
Analyte					
Diesel	Result	PQL	SPK value	SPK Ref Val	%REC
1290	15.0	1352	0	95.2	85
Lube Oil	591	50.0	696.9	0	84.7
				85	115
				115	

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	RunNo: 12482
Client ID: CCV	Batch ID: 6284	TestNo: NWTPH-Dx	SW3545A	Analysis Date: 11/20/2013	SeqNo: 159867
Analyte					
Diesel	Result	PQL	SPK value	SPK Ref Val	%REC
1020	15.0	1014	0	100	85
				85	115

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco	

Page 18 of 26

QC SUMMARY REPORT

WO#: 1311076
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: NWTPHDX_S

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	RunNo: 12482
Client ID: CCV	Batch ID: 6284	TestNo: NWTPH-Dx	SW3545A	Analysis Date: 11/20/2013	SeqNo: 159867
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lube Oil	457	50.0	522.7	0	87.4
				85	115
				%RPD	RPDLimit
				Qual	

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 19 of 26

QC SUMMARY REPORT

WO#: 1311076
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: PAHLL_S

Sample ID: CCV-6292	SampType: CCV	TestCode: PAHLL_S		Units: µg/Kg	Prep Date:			RunNo: 12451			
Client ID: CCV	Batch ID: 6292	TestNo: SW8270D	SW 3545A		Analysis Date: 11/19/2013			SeqNo: 159380			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	122	6.67	133.3	0	91.7	80	120				
2-Methylnaphthalene	142	6.67	133.3	0	106	80	120				
Acenaphthene	113	6.67	133.3	0	84.8	80	120				
Acenaphthylene	125	6.67	133.3	0	93.8	80	120				
Anthracene	110	6.67	133.3	0	82.6	80	120				
Benz(a)anthracene	114	6.67	133.3	0	85.6	80	120				
Benzo(a)pyrene	119	6.67	133.3	0	89.3	80	120				
Benzo(b)fluoranthene	115	6.67	133.3	0	86.3	80	120				
Benzo(g,h,i)perylene	121	6.67	133.3	0	91.0	80	120				
Benzo(k)fluoranthene	115	6.67	133.3	0	86.5	80	120				
Carbazole	118	6.67	133.3	0	88.2	80	120				
Chrysene	110	6.67	133.3	0	82.2	80	120				
Dibenz(a,h)anthracene	120	6.67	133.3	0	89.8	80	120				
Dibenzofuran	116	6.67	133.3	0	87.3	80	120				
Fluoranthene	112	6.67	133.3	0	84.3	80	120				
Fluorene	119	6.67	133.3	0	89.4	80	120				
Indeno(1,2,3-cd)pyrene	122	6.67	133.3	0	91.3	80	120				
Naphthalene	120	6.67	133.3	0	89.9	80	120				
Phenanthrene	115	6.67	133.3	0	86.5	80	120				
Pyrene	119	6.67	133.3	0	89.2	80	120				

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 20 of 26

QC SUMMARY REPORT

WO#: 1311076
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: PAHLL_S

Sample ID: LCS-6292	SampType: LCS	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 11/18/2013	RunNo: 12451
Client ID: LCSS	Batch ID: 6292	TestNo: SW8270D	SW 3545A	Analysis Date: 11/19/2013	SeqNo: 159381
Analyte					
	Result	PQL	SPK value	SPK Ref Val	%REC
Acenaphthene	222	6.67	333.4	0	66.5
Benzo(a)pyrene	253	6.67	333.4	0	75.8
Benzo(g,h,i)perylene	292	6.67	333.4	0	87.5
Naphthalene	202	6.67	333.4	0	60.7
Phenanthrene	231	6.67	333.4	0	69.4
Pyrene	254	6.67	333.4	0	76.2

Sample ID: MB-6292	SampType: MBLK	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 11/18/2013	RunNo: 12451
Client ID: PBS	Batch ID: 6292	TestNo: SW8270D	SW 3545A	Analysis Date: 11/19/2013	SeqNo: 159383
Analyte					
	Result	PQL	SPK value	SPK Ref Val	%REC
Acenaphthene	ND	6.67			
Acenaphthylene	ND	6.67			
Anthracene	ND	6.67			
Benz(a)anthracene	ND	6.67			
Benzo(a)pyrene	ND	6.67			
Benzo(b)fluoranthene	ND	6.67			
Benzo(g,h,i)perylene	ND	6.67			
Benzo(k)fluoranthene	ND	6.67			
Chrysene	ND	6.67			
Dibenz(a,h)anthracene	ND	6.67			
Fluoranthene	ND	6.67			
Fluorene	ND	6.67			
Indeno(1,2,3-cd)pyrene	ND	6.67			

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 21 of 26

QC SUMMARY REPORT

WO#: 1311076
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: PAHLL_S

Sample ID: MB-6292	SampType: MBLK	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 11/18/2013	RunNo: 12451						
Client ID: PBS	Batch ID: 6292	TestNo: SW8270D	SW 3545A	Analysis Date: 11/19/2013	SeqNo: 159383						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	6.67									
Phenanthrene	ND	6.67									
Pyrene	ND	6.67									
Surr: 2-Fluorobiphenyl	3.69	6.667			55.4	42.6	128				
Surr: Nitrobenzene-d5	4.75	6.667			71.3	21.7	155				
Surr: p-Terphenyl-d14	4.78	6.667			71.7	44.9	155				

Sample ID: 1311104-007AMS	SampType: MS	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 11/18/2013	RunNo: 12451						
Client ID: ZZZZZZ	Batch ID: 6292	TestNo: SW8270D	SW 3545A	Analysis Date: 11/19/2013	SeqNo: 159681						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	218	33.4	333.4	1.676	65.0	33.7	111				
Benzo(a)pyrene	273	33.4	333.4	7.913	79.7	64.6	110				
Benzo(g,h,i)perylene	286	33.4	333.4	18.49	80.4	15	128				
Naphthalene	179	33.4	333.4	8.118	51.3	27.7	108				
Phenanthrene	251	33.4	333.4	11.94	71.8	20.2	139				
Pyrene	275	33.4	333.4	18.63	77.0	26.8	142				

Sample ID: 1311104-007AMSD	SampType: MSD	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 11/18/2013	RunNo: 12451						
Client ID: ZZZZZZ	Batch ID: 6292	TestNo: SW8270D	SW 3545A	Analysis Date: 11/19/2013	SeqNo: 159682						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	221	33.4	333.4	1.676	65.9	33.7	111	218.5	1.25	20	

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDLimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco

Page 22 of 26

QC SUMMARY REPORT

WO#: 1311076
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: PAHLL_S

Sample ID: 1311104-007AMSD	SampType: MSD	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 11/18/2013	RunNo: 12451
Client ID: ZZZZZZ	Batch ID: 6292	TestNo: SW8270D	SW 3545A	Analysis Date: 11/19/2013	SeqNo: 159682
Analyte					
Benzo(a)pyrene	295	33.4	333.4	7.913	86.3 64.6 110 273.5 7.74 20
Benzo(g,h,i)perylene	300	33.4	333.4	18.49	84.4 15 128 286.4 4.55 20
Naphthalene	192	33.4	333.4	8.118	55.1 27.7 108 179.1 6.83 20
Phenanthrene	246	33.4	333.4	11.94	70.2 20.2 139 251.5 2.28 20
Pyrene	254	33.4	333.4	18.63	70.7 26.8 142 275.2 7.89 20

Sample ID: CCV-6292	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	RunNo: 12451
Client ID: CCV	Batch ID: 6292	TestNo: SW8270D	SW 3545A	Analysis Date: 11/20/2013	SeqNo: 160071
Analyte					
1-Methylnaphthalene	115	6.67	133.3	0 86.3 80 120	
2-Methylnaphthalene	145	6.67	133.3	0 109 80 120	
Acenaphthene	114	6.67	133.3	0 85.7 80 120	
Acenaphthylene	130	6.67	133.3	0 97.4 80 120	
Anthracene	116	6.67	133.3	0 86.8 80 120	
Benz(a)anthracene	118	6.67	133.3	0 88.9 80 120	
Benzo(a)pyrene	127	6.67	133.3	0 95.4 80 120	
Benzo(b)fluoranthene	118	6.67	133.3	0 88.4 80 120	
Benzo(g,h,i)perylene	138	6.67	133.3	0 104 80 120	
Benzo(k)fluoranthene	120	6.67	133.3	0 90.0 80 120	
Carbazole	120	6.67	133.3	0 90.3 80 120	
Chrysene	113	6.67	133.3	0 85.0 80 120	
Dibenz(a,h)anthracene	139	6.67	133.3	0 104 80 120	
Dibenzofuran	117	6.67	133.3	0 88.1 80 120	

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 23 of 26

QC SUMMARY REPORT

WO#: 1311076
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: PAHLL_S

Sample ID: CCV-6292	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:			RunNo: 12451		
Client ID: CCV	Batch ID: 6292	TestNo: SW8270D	SW 3545A	Analysis Date: 11/20/2013			SeqNo: 160071		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Fluoranthene	122	6.67	133.3	0	91.5	80	120		
Fluorene	121	6.67	133.3	0	91.1	80	120		
Indeno(1,2,3-cd)pyrene	140	6.67	133.3	0	105	80	120		
Naphthalene	120	6.67	133.3	0	90.3	80	120		
Phenanthrene	118	6.67	133.3	0	88.8	80	120		
Pyrene	115	6.67	133.3	0	86.5	80	120		

Sample ID: CCB-6292	SampType: CCB	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:			RunNo: 12451		
Client ID: CCB	Batch ID: 6292	TestNo: SW8270D	SW 3545A	Analysis Date: 11/20/2013			SeqNo: 160072		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
1-Methylnaphthalene	ND	6.67							
2-Methylnaphthalene	ND	6.67							
Acenaphthene	ND	6.67							
Acenaphthylene	ND	6.67							
Anthracene	ND	6.67							
Benz(a)anthracene	ND	6.67							
Benzo(a)pyrene	ND	6.67							
Benzo(b)fluoranthene	ND	6.67							
Benzo(g,h,i)perylene	ND	6.67							
Benzo(k)fluoranthene	ND	6.67							
Carbazole	ND	6.67							
Chrysene	ND	6.67							
Dibenz(a,h)anthracene	ND	6.67							

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 24 of 26

QC SUMMARY REPORT

WO#: 1311076
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: PAHLL_S

Sample ID: CCB-6292	SampType: CCB	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	RunNo: 12451
Client ID: CCB	Batch ID: 6292	TestNo: SW8270D	SW 3545A	Analysis Date: 11/20/2013	SeqNo: 160072
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Dibenzofuran	ND	6.67			
Fluoranthene	ND	6.67			
Fluorene	ND	6.67			
Indeno(1,2,3-cd)pyrene	ND	6.67			
Naphthalene	ND	6.67			
Phenanthrene	ND	6.67			
Pyrene	ND	6.67			
Surr: 2-Fluorobiphenyl	3.60	6.667		53.9	42.6
Surr: Nitrobenzene-d5	4.84	6.667		72.6	21.7
Surr: p-Terphenyl-d14	4.55	6.667		68.3	44.9
					128
					155

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSdlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 25 of 26

QC SUMMARY REPORT

WO#: 1311076
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: TOC_S

Sample ID: LCS-R12313	SampType: LCS	TestCode: TOC_S	Units: mg/Kg-dry	Prep Date:	RunNo: 12313
Client ID: LCSS	Batch ID: R12313	TestNo: SW9060		Analysis Date: 11/8/2013	SeqNo: 157318
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Organic Carbon	1030	100	1000	0	103 80 120

Sample ID: MB-R12313	SampType: MBLK	TestCode: TOC_S	Units: mg/Kg-dry	Prep Date:	RunNo: 12313
Client ID: PBS	Batch ID: R12313	TestNo: SW9060		Analysis Date: 11/8/2013	SeqNo: 157319
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Organic Carbon	ND	100			

Sample ID: 1311004-001BDUP	SampType: DUP	TestCode: TOC_S	Units: mg/Kg-dry	Prep Date:	RunNo: 12313
Client ID: ZZZZZZ	Batch ID: R12313	TestNo: SW9060		Analysis Date: 11/8/2013	SeqNo: 157321
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Organic Carbon	6870	100			8187 17.5 20

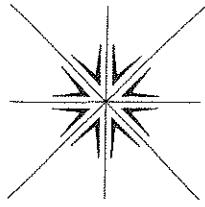
Sample ID: R12313CCV	SampType: CCV	TestCode: TOC_S	Units: mg/Kg-dry	Prep Date:	RunNo: 12313
Client ID: CCV	Batch ID: R12313	TestNo: SW9060		Analysis Date: 11/8/2013	SeqNo: 157323
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Organic Carbon	992	100	1000	0	99.2 80 120

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit	Page 26 of 26
	O	RSD is greater than RSDLimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco	

KEY TO FLAGS

Rev. May 12, 2010

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
- A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
- A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
- A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
- A4 The product appears to be aged or degraded diesel.
- B The blank exhibited a positive result greater than the reporting limit for this compound.
- CN See Case Narrative.
- D Result is based from a dilution.
- E Result exceeds the calibration range for this compound. The result should be considered as estimate.
- F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
- G Result may be biased high due to biogenic interferences. Clean up is recommended.
- H Sample was analyzed outside recommended holding time.
- HT At clients request, samples was analyzed outside of recommended holding time.
- J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
- K Diesel result is biased high due to amount of Oil contained in the sample.
- L Diesel result is biased high due to amount of Gasoline contained in the sample.
- M Oil result is biased high due to amount of Diesel contained in the sample.
- MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
- MI Result is outside control limits due to matrix interference.
- MSA Value determined by Method of Standard Addition.
- O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
- Q Detection levels elevated due to sample matrix.
- R RPD control limits were exceeded.
- RF Duplicate failed due to result being at or near the method-reporting limit.
- RP Matrix spike values exceed established QC limits; post digestion spike is in control.
- S Recovery is outside control limits.
- SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- * The result for this parameter was greater than the maximum contaminant level of the TCLP regulatory limit.



CHAIN OF CUSTODY RECORD

Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Collected By: Chris Kramer
Signature: Chris Kramer
Printed: Chris Kramer

Signature _____
Printed _____

Turn Around Time

Normal 5-7 Business Days
 Rush _____

Rush Analyses Must Be Scheduled With The Lab In Advance

Relinquished By: Carter
Company: SAC

Date 1/7/13 Time 12:00

Received By
Company:

Relinquished By
Company:

Date Time

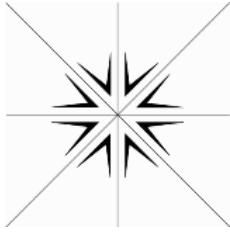
Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt.
Samples held beyond 60 days subject to storage fee(s)

Received For Lab By

Date Time

Samples held beyond 60 days subject to storage fees

Helen Bupper



Specialty Analytical

11711 SE Capps Road, Ste B
Clackamas, Oregon 97015
TEL: 503-607-1331 FAX: 503-607-1336
Website: www.specialtyanalytical.com

November 25, 2013

Scott Miller
SLR International Corp.
1800 Blankenship Rd.
Ste 440
West Linn, OR 97068

TEL: (503) 723-4423
FAX
RE: Lampros Properties / 108.00895.00001

Dear Scott Miller: Order No.: 1311004

Specialty Analytical received 1 sample(s) on 11/1/2013 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications, except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

Marty French
Lab Director

Specialty Analytical

Date Reported: 25-Nov-13

CLIENT: SLR International Corp. **Collection Date:** 11/1/2013 10:30:00 AM
Project: Lampros Properties / 108.00895.00001
Lab ID: 1311004-001
Client Sample ID: Solids-1 **Matrix:** SOLID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NWTPH-HCID			NWHCID			Analyst: ZP
Gasoline	ND	24.6		mg/Kg-dry	1	11/5/2013 4:26:36 PM
Mineral Spirits	ND	24.6		mg/Kg-dry	1	11/5/2013 4:26:36 PM
Kerosene	ND	61.6		mg/Kg-dry	1	11/5/2013 4:26:36 PM
Diesel	Diesel	61.6		mg/Kg-dry	1	11/5/2013 4:26:36 PM
Lube Oil	Oil	123		mg/Kg-dry	1	11/5/2013 4:26:36 PM
Surr: BFB	87.3	50-150	%REC		1	11/5/2013 4:26:36 PM
Surr: o-Terphenyl	100	50-150	%REC		1	11/5/2013 4:26:36 PM
ICP/MS METALS-TOTAL RECOVERABLE			SW6020A			Analyst: ZL
Aluminum	6840000	8930		µg/Kg	100	11/20/2013 2:18:00 PM
Antimony	4430	446		µg/Kg	10	11/20/2013 1:04:00 PM
Arsenic	3940	893		µg/Kg	10	11/20/2013 1:04:00 PM
Cadmium	2380	89.3		µg/Kg	10	11/20/2013 1:04:00 PM
Chromium	72000	893		µg/Kg	10	11/20/2013 1:04:00 PM
Copper	107000	4460		µg/Kg	100	11/20/2013 2:18:00 PM
Lead	259000	2230		µg/Kg	100	11/20/2013 2:18:00 PM
Manganese	633000	4460		µg/Kg	100	11/20/2013 2:18:00 PM
Nickel	32400	446		µg/Kg	10	11/20/2013 1:04:00 PM
Silver	310	89.3		µg/Kg	10	11/20/2013 1:04:00 PM
Zinc	1210000	179000		µg/Kg	200	11/20/2013 3:33:00 PM
TOTAL MERCURY			SW 7471B			Analyst: VAS
Mercury	0.206	0.0167		mg/Kg	1	11/20/2013 10:24:00 AM
SEMI-VOLATILE COMPOUNDS - BASE/NEUTRAL			SW8270D			Analyst: bda
Bis(2-ethylhexyl)phthalate	589	33.3		µg/Kg	1	11/19/2013 5:46:00 PM
Butyl benzyl phthalate	ND	33.3		µg/Kg	1	11/19/2013 5:46:00 PM
Diethyl phthalate	ND	33.3		µg/Kg	1	11/19/2013 5:46:00 PM
Dimethyl phthalate	ND	33.3		µg/Kg	1	11/19/2013 5:46:00 PM
Di-n-butyl phthalate	41.7	33.3		µg/Kg	1	11/19/2013 5:46:00 PM
Di-n-octyl phthalate	ND	33.3		µg/Kg	1	11/19/2013 5:46:00 PM
Surr: 2-Fluorobiphenyl	42.1	52.6-93.2	SMI	%REC	1	11/19/2013 5:46:00 PM
Surr: 4-Terphenyl-d14	77.8	49.8-118		%REC	1	11/19/2013 5:46:00 PM
Surr: Nitrobenzene-d5	35.5	44.8-103	SMI	%REC	1	11/19/2013 5:46:00 PM
PAH'S BY GC/MS - LOW LEVEL			SW8270D			Analyst: bda
2-Methylnaphthalene	ND	6.67		µg/Kg	1	11/7/2013 8:55:00 PM
Acenaphthene	76.7	6.67		µg/Kg	1	11/7/2013 8:55:00 PM
Acenaphthylene	90.7	6.67		µg/Kg	1	11/7/2013 8:55:00 PM

Specialty Analytical

Date Reported: 25-Nov-13

CLIENT: SLR International Corp. **Collection Date:** 11/1/2013 10:30:00 AM
Project: Lampros Properties / 108.00895.00001
Lab ID: 1311004-001
Client Sample ID: Solids-1 **Matrix:** SOLID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PAH'S BY GC/MS - LOW LEVEL						
Anthracene	264	6.67		µg/Kg	1	11/7/2013 8:55:00 PM
Benz(a)anthracene	543	6.67		µg/Kg	1	11/7/2013 8:55:00 PM
Benzo(a)pyrene	659	6.67		µg/Kg	1	11/7/2013 8:55:00 PM
Benzo(b)fluoranthene	779	6.67		µg/Kg	1	11/7/2013 8:55:00 PM
Benzo(g,h,i)perylene	634	6.67		µg/Kg	1	11/7/2013 8:55:00 PM
Benzo(k)fluoranthene	179	6.67		µg/Kg	1	11/7/2013 8:55:00 PM
Chrysene	803	6.67		µg/Kg	1	11/7/2013 8:55:00 PM
Dibenz(a,h)anthracene	126	6.67		µg/Kg	1	11/7/2013 8:55:00 PM
Fluoranthene	1800	33.4		µg/Kg	5	11/7/2013 8:29:00 PM
Fluorene	62.7	6.67		µg/Kg	1	11/7/2013 8:55:00 PM
Indeno(1,2,3-cd)pyrene	483	6.67		µg/Kg	1	11/7/2013 8:55:00 PM
Naphthalene	9.33	6.67		µg/Kg	1	11/7/2013 8:55:00 PM
Phenanthrene	731	6.67		µg/Kg	1	11/7/2013 8:55:00 PM
Pyrene	1850	33.4		µg/Kg	5	11/7/2013 8:29:00 PM
Surr: 2-Fluorobiphenyl	96.7	42.6-128		%REC	1	11/7/2013 8:55:00 PM
Surr: Nitrobenzene-d5	66.2	21.7-155		%REC	1	11/7/2013 8:55:00 PM
Surr: p-Terphenyl-d14	105	44.9-155		%REC	1	11/7/2013 8:55:00 PM
PCB'S IN SOLIDS						
Aroclor 1016	ND	0.333		µg/Kg	1	11/7/2013 2:48:00 PM
Aroclor 1221	ND	0.333		µg/Kg	1	11/7/2013 2:48:00 PM
Aroclor 1232	ND	0.333		µg/Kg	1	11/7/2013 2:48:00 PM
Aroclor 1242	ND	0.333		µg/Kg	1	11/7/2013 2:48:00 PM
Aroclor 1248	ND	0.333		µg/Kg	1	11/7/2013 2:48:00 PM
Aroclor 1254	ND	0.333		µg/Kg	1	11/7/2013 2:48:00 PM
Aroclor 1260	417	0.333		µg/Kg	1	11/7/2013 2:48:00 PM
Aroclor 1262	ND	0.333		µg/Kg	1	11/7/2013 2:48:00 PM
Aroclor 1268	ND	0.333		µg/Kg	1	11/7/2013 2:48:00 PM
Surr: Decachlorobiphenyl	81.5	56.5-130		%REC	1	11/7/2013 2:48:00 PM
ORGANIC CARBON, TOTAL						
Total Organic Carbon	8190	100		mg/Kg-dry	1	11/8/2013 10:40:00 AM

QC SUMMARY REPORT

WO#: 1311004
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: 6020_S

Sample ID: ICV	SampType: ICV	TestCode: 6020_S	Units: µg/Kg	Prep Date:			RunNo: 12494				
Client ID: ICV	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013			SeqNo: 159983				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	48600	100	50000	0	97.2	90	110				B
Antimony	5210	50.0	5000	0	104	90	110				
Arsenic	5030	100	5000	0	101	90	110				
Cadmium	5100	10.0	5000	0	102	90	110				
Chromium	5200	100	5000	0	104	90	110				
Copper	5350	50.0	5000	0	107	90	110				
Lead	5060	25.0	5000	0	101	90	110				
Manganese	5190	50.0	5000	0	104	90	110				B
Nickel	5210	50.0	5000	0	104	90	110				B
Zinc	4920	1000	5000	0	98.4	90	110				

Sample ID: ICV Ag	SampType: ICV	TestCode: 6020_S	Units: µg/Kg	Prep Date:			RunNo: 12494				
Client ID: ICV	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013			SeqNo: 159984				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	5260	10.0	5000	0	105	90	110				

Sample ID: MB-6288	SampType: MBLK	TestCode: 6020_S	Units: µg/Kg	Prep Date: 11/18/2013			RunNo: 12494				
Client ID: PBS	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013			SeqNo: 159985				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	673	100									
Antimony	ND	50.0									

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 1 of 19

QC SUMMARY REPORT

WO#: 1311004
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: 6020_S

Sample ID: MB-6288	SampType: MBLK	TestCode: 6020_S	Units: µg/Kg	Prep Date: 11/18/2013	RunNo: 12494
Client ID: PBS	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013	SeqNo: 159985
Analyte					
Arsenic	Result	PQL	SPK value	SPK Ref Val	%REC
ND	100				
Cadmium		ND	10.0		
Chromium		ND	100		
Copper		ND	50.0		
Lead		ND	25.0		
Manganese		81.2	50.0		
Nickel		116	50.0		
Silver		ND	10.0		
Zinc		ND	1000		

Sample ID: LCS-6288	SampType: LCS	TestCode: 6020_S	Units: µg/Kg	Prep Date: 11/18/2013	RunNo: 12494
Client ID: LCSS	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013	SeqNo: 159986
Analyte					
Antimony	Result	PQL	SPK value	SPK Ref Val	%REC
4280	50.0	5000	0	85.7	74.1
Arsenic		100	5000	0	76.4
Cadmium		10.0	5000	0	84.5
Copper		5120	5000	0	102
Lead		5200	5000	0	104
Silver		4710	10.0	5000	94.2
Zinc		3710	1000	5000	74.1
				12.3	165
				69	129

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit	Page 2 of 19
	O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco	

QC SUMMARY REPORT

WO#: 1311004
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: 6020_S

Sample ID: 1310151-013ADUP	SampType: DUP	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 11/18/2013	RunNo: 12494
Client ID: ZZZZZZ	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013	SeqNo: 159988
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Antimony	ND	710			0
Arsenic	4580	1420			5118
Cadmium	417	142			418.6
Copper	40900	710			47050
Lead	41000	355			43530
Nickel	15700	710			16780
Silver	165	142			220.7
Zinc	134000	14200			116800
					0
					20
					11.0
					20
					0.484
					20
					14.1
					20
					5.94
					20
					6.78
					20
					RF
					20
					13.5
					20

Sample ID: 1310151-013AMS	SampType: MS	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 11/18/2013	RunNo: 12494
Client ID: ZZZZZZ	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013	SeqNo: 159989
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Antimony	2000	683	6828	227.9	25.9
Arsenic	12000	1370	6828	5118	100
Cadmium	6630	137	6828	418.6	91.0
Copper	66400	683	6828	47050	283
Lead	82400	341	6828	43530	569
Nickel	21100	683	6828	16780	63.3
Silver	2660	137	6828	220.7	35.7
					70
					130
					S
					SMC
					SMC
					SMC
					S

Qualifiers:	B Analyte detected in the associated Method Blank	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit	Page 3 of 19
O RSD is greater than RSDlimit	R RPD outside accepted recovery limits	S Spike Recovery outside accepted reco		

QC SUMMARY REPORT

WO#: 1311004
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: 6020_S

Sample ID: 1310151-013AMSD	SampType: MSD	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 11/18/2013	RunNo: 12494
Client ID: ZZZZZZ	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013	SeqNo: 159990
Analyte					
Antimony	1090	634	6341	227.9	13.5 70 130 1995 59.0 20 SR
Arsenic	6270	1270	6341	5118	18.1 70 130 11980 62.6 20 SR
Cadmium	3410	127	6341	418.6	47.2 70 130 6635 64.1 20 SR
Copper	29700	634	6341	47050	-273 70 130 66400 76.3 20 SRMC
Lead	40800	317	6341	43530	-42.9 70 130 82350 67.5 20 SRMC
Nickel	10100	634	6341	16780	-105 70 130 21100 70.2 20 SRMC
Silver	1640	127	6341	220.7	22.3 70 130 2660 47.7 20 SR
Zinc	72700	12700	6341	116800	-694 70 130 144600 66.1 20 SRMC

Sample ID: CCV Ag	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	RunNo: 12494
Client ID: CCV	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013	SeqNo: 159992
Analyte					
Silver	5440	10.0	5000	0 109 90 110	

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	RunNo: 12494
Client ID: CCV	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013	SeqNo: 160001
Analyte					
Aluminum	52300	100	50000	0 105 90 110	B
Antimony	5300	50.0	5000	0 106 90 110	
Arsenic	4920	100	5000	0 98.4 90 110	
Cadmium	5210	10.0	5000	0 104 90 110	

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSdlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco'

Page 4 of 19

QC SUMMARY REPORT

WO#: 1311004
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: 6020_S

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:			RunNo: 12494				
Client ID: CCV	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013			SeqNo: 160001				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	4930	100	5000	0	98.6	90	110				
Copper	5030	50.0	5000	0	101	90	110				
Lead	5240	25.0	5000	0	105	90	110				
Manganese	5110	50.0	5000	0	102	90	110				B
Nickel	4720	50.0	5000	0	94.5	90	110				B
Zinc	4750	1000	5000	0	95.0	90	110				

Sample ID: 1310151-013ADUP	SampType: DUP	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date:	11/18/2013	RunNo: 12494					
Client ID: ZZZZZZ	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date:	11/20/2013	SeqNo: 160003					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	14100000	14200				15720000			11.0	20	
Chromium	203000	14200				180600			11.6	20	
Manganese	351000	7100				292000			18.5	20	

Sample ID: 1310151-013AMS	SampType: MS	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date:	11/18/2013	RunNo: 12494					
Client ID: ZZZZZZ	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date:	11/20/2013	SeqNo: 160004					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	12200000	13700	68280	15720000	-5200	70	130				SMC
Chromium	232000	13700	6828	180600	760	70	130				SMC
Manganese	286000	6830	6828	292000	-83.6	70	130				SMC
Zinc	141000	137000	6828	114600	387	70	130				SMC

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDLimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco

Page 5 of 19

QC SUMMARY REPORT

WO#: 1311004
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: 6020_S

Sample ID: 1310151-013AMS	SampType: MS	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 11/18/2013	RunNo: 12494
Client ID: ZZZZZZ	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013	SeqNo: 160004
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sample ID: 1310151-013AMSD	SampType: MSD	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 11/18/2013	RunNo: 12494
Client ID: ZZZZZZ	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013	SeqNo: 160005
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Aluminum	7230000	12700	63410	15720000	-13400 70 130 12160000 50.9 20 SRMC
Chromium	141000	12700	6341	180600	-620 70 130 232400 48.8 20 SRMC
Manganese	148000	6340	6341	292000	-2270 70 130 286200 63.5 20 SRMC

Sample ID: CCV Ag	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	RunNo: 12494
Client ID: CCV	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013	SeqNo: 160108
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Silver	5440	10.0	5000	0	109 90 110

Sample ID: LCS-6288	SampType: LCS	TestCode: 6020_S	Units: µg/Kg	Prep Date: 11/18/2013	RunNo: 12494
Client ID: LCSS	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013	SeqNo: 160109
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Aluminum	52200	100	50000	0	104 80 120
Chromium	5030	100	5000	0	101 80 120
Nickel	4710	50.0	5000	0	94.2 80 120

Qualifiers:	B Analyte detected in the associated Method Blank	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit	Page 6 of 19
O RSD is greater than RSDLimit	R RPD outside accepted recovery limits	S Spike Recovery outside accepted reco		

QC SUMMARY REPORT

WO#: 1311004
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: 6020_S

Sample ID: LCS-6288	SampType: LCS	TestCode: 6020_S	Units: µg/Kg	Prep Date: 11/18/2013	RunNo: 12494
Client ID: LCSS	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/20/2013	SeqNo: 160109
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sample ID: ICV	SampType: ICV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	RunNo: 12494
Client ID: ICV	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/22/2013	SeqNo: 161345
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	5320	50.0	5000	0	106 90 110 B

Sample ID: LCS-6288	SampType: LCS	TestCode: 6020_S	Units: µg/Kg	Prep Date: 11/18/2013	RunNo: 12494
Client ID: LCSS	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/22/2013	SeqNo: 161346
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	5240	50.0	5000	0	105 80 120 B

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	RunNo: 12494
Client ID: CCV	Batch ID: 6288	TestNo: SW6020A	SW3050B	Analysis Date: 11/22/2013	SeqNo: 161347
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	5230	50.0	5000	0	105 90 110 B

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDLimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco	

Page 7 of 19

QC SUMMARY REPORT

WO#: 1311004
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: 8270BN_S

Sample ID: LCS-6239	SampType: LCS	TestCode: 8270BN_S	Units: µg/Kg	Prep Date: 11/12/2013	RunNo: 12470
Client ID: LCSS	Batch ID: 6239	TestNo: SW8270D	SW 3545A	Analysis Date: 11/19/2013	SeqNo: 159591
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Bis(2-ethylhexyl)phthalate	946	33.3	1666	0	56.7
Butyl benzyl phthalate	965	33.3	1666	0	57.9
Diethyl phthalate	956	33.3	1666	0	57.4
Dimethyl phthalate	903	33.3	1666	0	54.2
Di-n-butyl phthalate	1060	33.3	1666	0	63.6
Di-n-octyl phthalate	1010	33.3	1666	0	60.8
					LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
					50 150 12470 100% 150% 100%

Sample ID: MB-6239	SampType: MBLK	TestCode: 8270BN_S	Units: µg/Kg	Prep Date: 11/12/2013	RunNo: 12470
Client ID: PBS	Batch ID: 6239	TestNo: SW8270D	SW 3545A	Analysis Date: 11/19/2013	SeqNo: 159592
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Bis(2-ethylhexyl)phthalate	ND	33.3			
Butyl benzyl phthalate	ND	33.3			
Diethyl phthalate	ND	33.3			
Dimethyl phthalate	ND	33.3			
Di-n-butyl phthalate	ND	33.3			
Di-n-octyl phthalate	ND	33.3			
Surr: 2-Fluorobiphenyl	1880		3333		56.3
Surr: 4-Terphenyl-d14	2690		3333		80.7
Surr: Nitrobenzene-d5	2080		3333		62.5
					LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
					52.6 93.2 12470 100% 150% 100%

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 8 of 19

QC SUMMARY REPORT

WO#: 1311004
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: 8270BN_S

Sample ID: 1311004-001BMS	SampType: MS	TestCode: 8270BN_S	Units: µg/Kg	Prep Date: 11/12/2013	RunNo: 12470
Client ID: Solids-1	Batch ID: 6239	TestNo: SW8270D	SW 3545A	Analysis Date: 11/19/2013	SeqNo: 159596
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Bis(2-ethylhexyl)phthalate	1340	33.3	1666	589.3	45.3
Butyl benzyl phthalate	809	33.3	1666	22.00	47.2
Diethyl phthalate	754	33.3	1666	0	45.2
Dimethyl phthalate	700	33.3	1666	0	42.0
Di-n-butyl phthalate	886	33.3	1666	41.67	50.7
Di-n-octyl phthalate	785	33.3	1666	28.67	45.4

Sample ID: 1311004-001BMSD	SampType: MSD	TestCode: 8270BN_S	Units: µg/Kg	Prep Date: 11/12/2013	RunNo: 12470
Client ID: Solids-1	Batch ID: 6239	TestNo: SW8270D	SW 3545A	Analysis Date: 11/19/2013	SeqNo: 159597
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Bis(2-ethylhexyl)phthalate	2700	33.3	1666	589.3	127
Butyl benzyl phthalate	811	33.3	1666	22.00	47.3
Diethyl phthalate	729	33.3	1666	0	43.7
Dimethyl phthalate	744	33.3	1666	0	44.6
Di-n-butyl phthalate	857	33.3	1666	41.67	48.9
Di-n-octyl phthalate	978	33.3	1666	28.67	56.9

Sample ID: CCV-6239	SampType: CCV	TestCode: 8270BN_S	Units: µg/Kg	Prep Date:	RunNo: 12470
Client ID: CCV	Batch ID: 6239	TestNo: SW8270D	SW 3545A	Analysis Date: 11/19/2013	SeqNo: 159599
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Bis(2-ethylhexyl)phthalate	1450	33.3	1333	0	108
					80
					120

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco	

Page 9 of 19

QC SUMMARY REPORT

WO#: 1311004
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: 8270BN_S

Sample ID: CCV-6239	SampType: CCV	TestCode: 8270BN_S	Units: µg/Kg	Prep Date:			RunNo: 12470				
Client ID: CCV	Batch ID: 6239	TestNo: SW8270D	SW 3545A	Analysis Date: 11/19/2013			SeqNo: 159599				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	1530	33.3	1333	0	114	80	120				
Diethyl phthalate	1410	33.3	1333	0	105	80	120				
Dimethyl phthalate	1360	33.3	1333	0	102	80	120				
Di-n-butyl phthalate	1460	33.3	1333	0	110	80	120				
Di-n-octyl phthalate	1500	33.3	1333	0	112	80	120				

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 10 of 19

QC SUMMARY REPORT

WO#: 1311004
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: HCID_NW

Sample ID: MB-6206	SampType: MBLK	TestCode: HCID_NW	Units: mg/Kg	Prep Date: 11/5/2013	RunNo: 12253						
Client ID: PBS	Batch ID: 6206	TestNo: NWHCID		Analysis Date: 11/5/2013	SeqNo: 156533						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	20.0									
Mineral Spirits	ND	20.0									
Kerosene	ND	50.0									
Diesel	ND	50.0									
Lube Oil	ND	100									
Surr: BFB	84.4		100.0		84.4	50	150				
Surr: o-Terphenyl	89.6		100.0		89.6	50	150				

Sample ID: 1311004-001ADUP	SampType: DUP	TestCode: HCID_NW	Units: mg/Kg-dry	Prep Date: 11/5/2013	RunNo: 12253						
Client ID: Solids-1	Batch ID: 6206	TestNo: NWHCID		Analysis Date: 11/5/2013	SeqNo: 156535						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	24.6				0	0	20			
Mineral Spirits	ND	24.6				0	0	20			
Kerosene	ND	61.6				0	0	20			
Diesel	Diesel	61.6				195.8	3.24	20			
Lube Oil	Oil	123				555.3	18.2	20			

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 11 of 19

QC SUMMARY REPORT

WO#: 1311004
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: HG_CTS

Sample ID: MB-R12481	SampType: MBLK	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	RunNo: 12481
Client ID: PBS	Batch ID: 6295	TestNo: SW 7471B	SW 7471B	Analysis Date: 11/20/2013	SeqNo: 159803
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	ND	0.0167			

Sample ID: LCS-R12481	SampType: LCS	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	RunNo: 12481
Client ID: LCSS	Batch ID: 6295	TestNo: SW 7471B	SW 7471B	Analysis Date: 11/20/2013	SeqNo: 159804
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	0.392	0.0167	0.4000	0	97.9 80 120

Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	RunNo: 12481
Client ID: CCV	Batch ID: 6295	TestNo: SW 7471B	SW 7471B	Analysis Date: 11/20/2013	SeqNo: 159811
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	0.439	0.0167	0.4000	0	110 90 110

Sample ID: 1311004-001BDUP	SampType: DUP	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 11/19/2013	RunNo: 12481
Client ID: Solids-1	Batch ID: 6295	TestNo: SW 7471B	SW 7471B	Analysis Date: 11/20/2013	SeqNo: 159813
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	0.0202	0.0155			0.2057 164 20 RMI

Qualifiers:	B Analyte detected in the associated Method Blank	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit	Page 12 of 19
	O RSD is greater than RSDLimit	R RPD outside accepted recovery limits	S Spike Recovery outside accepted reco	

QC SUMMARY REPORT

WO#: 1311004
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: HG_CTS

Sample ID: 1311004-001BMS	SampType: MS	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 11/19/2013	RunNo: 12481
Client ID: Solids-1	Batch ID: 6295	TestNo: SW 7471B	SW 7471B	Analysis Date: 11/20/2013	SeqNo: 159814
Analyte					
Mercury	Result	PQL	SPK value	SPK Ref Val	%REC
	0.343	0.0155	0.3704	0.2057	37.1
					75
					125
					SMI

Sample ID: 1311004-001BMSD	SampType: MSD	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 11/19/2013	RunNo: 12481
Client ID: Solids-1	Batch ID: 6295	TestNo: SW 7471B	SW 7471B	Analysis Date: 11/20/2013	SeqNo: 159815
Analyte					
Mercury	Result	PQL	SPK value	SPK Ref Val	%REC
	0.641	0.0161	0.3846	0.2057	113
					75
					125
					0.3432
					60.4
					20
					RMI

Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	RunNo: 12481
Client ID: CCV	Batch ID: 6295	TestNo: SW 7471B	SW 7471B	Analysis Date: 11/20/2013	SeqNo: 159868
Analyte					
Mercury	Result	PQL	SPK value	SPK Ref Val	%REC
	0.388	0.0167	0.4000	0	97.0
					90
					110

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco

Page 13 of 19

QC SUMMARY REPORT

WO#: 1311004
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: PAHLL_S

Sample ID: CCV-6220	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:			RunNo: 12286				
Client ID: CCV	Batch ID: 6220	TestNo: SW8270D	SW 3550C	Analysis Date: 11/7/2013			SeqNo: 157043				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	124	6.67	133.3	0	93.0	80	120				
Acenaphthylene	123	6.67	133.3	0	92.0	80	120				
Anthracene	109	6.67	133.3	0	82.0	80	120				
Benz(a)anthracene	117	6.67	133.3	0	88.0	80	120				
Benzo(a)pyrene	113	6.67	133.3	0	85.0	80	120				
Benzo(b)fluoranthene	137	6.67	133.3	0	103	80	120				
Benzo(g,h,i)perylene	135	6.67	133.3	0	101	80	120				
Benzo(k)fluoranthene	131	6.67	133.3	0	98.5	80	120				
Chrysene	125	6.67	133.3	0	93.5	80	120				
Dibenz(a,h)anthracene	138	6.67	133.3	0	104	80	120				
Fluoranthene	122	6.67	133.3	0	91.5	80	120				
Fluorene	138	6.67	133.3	0	104	80	120				
Indeno(1,2,3-cd)pyrene	131	6.67	133.3	0	98.5	80	120				
Naphthalene	127	6.67	133.3	0	95.0	80	120				
Phenanthrene	135	6.67	133.3	0	101	80	120				
Pyrene	119	6.67	133.3	0	89.5	80	120				

Sample ID: MB-6220	SampType: MBLK	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 11/7/2013			RunNo: 12286				
Client ID: PBS	Batch ID: 6220	TestNo: SW8270D	SW 3550C	Analysis Date: 11/7/2013			SeqNo: 157044				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	6.67									
Acenaphthylene	ND	6.67									
Anthracene	ND	6.67									

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDLimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco

Page 14 of 19

QC SUMMARY REPORT

WO#: 1311004
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: PAHLL_S

Sample ID: MB-6220	SampType: MBLK	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 11/7/2013	RunNo: 12286
Client ID: PBS	Batch ID: 6220	TestNo: SW8270D	SW 3550C	Analysis Date: 11/7/2013	SeqNo: 157044
Analyte					
Benz(a)anthracene	Result	PQL	SPK value	SPK Ref Val	%REC
ND	6.67				
Benzo(a)pyrene		ND	6.67		
Benzo(b)fluoranthene		ND	6.67		
Benzo(g,h,i)perylene		ND	6.67		
Benzo(k)fluoranthene		ND	6.67		
Chrysene		ND	6.67		
Dibenz(a,h)anthracene		ND	6.67		
Fluoranthene		ND	6.67		
Fluorene		ND	6.67		
Indeno(1,2,3-cd)pyrene		ND	6.67		
Naphthalene		ND	6.67		
Phenanthrene		ND	6.67		
Pyrene		ND	6.67		
Surr: 2-Fluorobiphenyl	6120		6667	91.8	42.6
Surr: Nitrobenzene-d5	4420		6667	66.2	21.7
Surr: p-Terphenyl-d14	7170		6667	108	44.9
					128
					155
					155

Sample ID: LCS-6220	SampType: LCS	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 11/7/2013	RunNo: 12286
Client ID: LCSS	Batch ID: 6220	TestNo: SW8270D	SW 3550C	Analysis Date: 11/7/2013	SeqNo: 157050
Analyte					
Acenaphthene	Result	PQL	SPK value	SPK Ref Val	%REC
310	6.67	333.4	0	93.0	39.6
Acenaphthylene		6.67	333.4	0	96.2
321		333.4		38.9	102
Anthracene		6.67	333.4	0	95.0
317		333.4		43.4	119

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco

Page 15 of 19

QC SUMMARY REPORT

WO#: 1311004
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: PAHLL_S

Sample ID: LCS-6220	SampType: LCS	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 11/7/2013	RunNo: 12286
Client ID: LCSS	Batch ID: 6220	TestNo: SW8270D	SW 3550C	Analysis Date: 11/7/2013	SeqNo: 157050
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Benz(a)anthracene	312	6.67	333.4	0	93.6
Benzo(a)pyrene	296	6.67	333.4	0	88.8
Benzo(b)fluoranthene	301	6.67	333.4	0	90.4
Benzo(g,h,i)perylene	353	6.67	333.4	0	106
Benzo(k)fluoranthene	342	6.67	333.4	0	103
Chrysene	319	6.67	333.4	0	95.8
Dibenz(a,h)anthracene	368	6.67	333.4	0	110
Fluoranthene	325	6.67	333.4	0	97.4
Fluorene	343	6.67	333.4	0	103
Indeno(1,2,3-cd)pyrene	349	6.67	333.4	0	105
Naphthalene	263	6.67	333.4	0	79.0
Phenanthrene	340	6.67	333.4	0	102
Pyrene	313	6.67	333.4	0	94.0

Sample ID: 1311066-001AMS	SampType: MS	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 11/7/2013	RunNo: 12286
Client ID: ZZZZZZ	Batch ID: 6220	TestNo: SW8270D	SW 3550C	Analysis Date: 11/7/2013	SeqNo: 157051
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Acenaphthene	327	33.4	333.4	26.00	90.2
Acenaphthylene	310	33.4	333.4	1.333	92.6
Anthracene	320	33.4	333.4	18.67	90.4
Benz(a)anthracene	317	33.4	333.4	18.00	89.6
Benzo(a)pyrene	310	33.4	333.4	6.667	91.0
Benzo(b)fluoranthene	343	33.4	333.4	16.67	98.0

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 16 of 19

QC SUMMARY REPORT

WO#: 1311004
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: PAHLL_S

Sample ID: 1311066-001AMS	SampType: MS	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 11/7/2013	RunNo: 12286
Client ID: ZZZZZZ	Batch ID: 6220	TestNo: SW8270D	SW 3550C	Analysis Date: 11/7/2013	SeqNo: 157051
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Benzo(g,h,i)perylene	423	33.4	333.4	0	127
Benzo(k)fluoranthene	290	33.4	333.4	4.000	85.8
Chrysene	333	33.4	333.4	19.33	94.2
Dibenz(a,h)anthracene	333	33.4	333.4	0	100
Fluoranthene	413	33.4	333.4	79.33	100
Fluorene	353	33.4	333.4	22.00	99.4
Indeno(1,2,3-cd)pyrene	330	33.4	333.4	0	99.0
Naphthalene	263	33.4	333.4	12.67	75.2
Phenanthrene	483	33.4	333.4	100.7	115
Pyrene	363	33.4	333.4	56.00	92.2
				LowLimit	HighLimit
				RPD Ref Val	RPD Ref Val
				%RPD	RPDLimit
				Qual	

Sample ID: 1311066-001AMSD	SampType: MSD	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 11/7/2013	RunNo: 12286
Client ID: ZZZZZZ	Batch ID: 6220	TestNo: SW8270D	SW 3550C	Analysis Date: 11/7/2013	SeqNo: 157052
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Acenaphthene	303	33.4	333.4	26.00	83.2
Acenaphthylene	290	33.4	333.4	1.333	86.6
Anthracene	290	33.4	333.4	18.67	81.4
Benz(a)anthracene	283	33.4	333.4	18.00	79.6
Benzo(a)pyrene	270	33.4	333.4	6.667	79.0
Benzo(b)fluoranthene	310	33.4	333.4	16.67	88.0
Benzo(g,h,i)perylene	347	33.4	333.4	0	104
Benzo(k)fluoranthene	263	33.4	333.4	4.000	77.8
Chrysene	300	33.4	333.4	19.33	84.2
				LowLimit	HighLimit
				RPD Ref Val	RPD Ref Val
				%RPD	RPDLimit
				Qual	

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 17 of 19

QC SUMMARY REPORT

WO#: 1311004
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: PAHLL_S

Sample ID: 1311066-001AMSD	SampType: MSD	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 11/7/2013	RunNo: 12286
Client ID: ZZZZZZ	Batch ID: 6220	TestNo: SW8270D	SW 3550C	Analysis Date: 11/7/2013	SeqNo: 157052
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Dibenz(a,h)anthracene	303	33.4	333.4	0	91.0
Fluoranthene	377	33.4	333.4	79.33	89.2
Fluorene	333	33.4	333.4	22.00	93.4
Indeno(1,2,3-cd)pyrene	277	33.4	333.4	0	83.0
Naphthalene	247	33.4	333.4	12.67	70.2
Phenanthrene	390	33.4	333.4	100.7	86.8
Pyrene	323	33.4	333.4	56.00	80.2
					LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
					23.6 125 333.3 9.42 20
					56.8 141 413.3 9.28 20
					48.6 117 353.3 5.83 20
					26.8 133 330.0 17.6 20
					27.7 108 263.3 6.54 20
					20.2 139 483.3 21.4 20 R
					26.8 142 363.3 11.7 20

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSdlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 18 of 19

QC SUMMARY REPORT

WO#: 1311004
25-Nov-13

Specialty Analytical

Client: SLR International Corp.
Project: Lampros Properties / 108.00895.00001

TestCode: TOC_S

Sample ID: LCS-R12313	SampType: LCS	TestCode: TOC_S	Units: mg/Kg-dry	Prep Date:	RunNo: 12313
Client ID: LCSS	Batch ID: R12313	TestNo: SW9060		Analysis Date: 11/8/2013	SeqNo: 157318
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Organic Carbon	1030	100	1000	0	103 80 120

Sample ID: MB-R12313	SampType: MBLK	TestCode: TOC_S	Units: mg/Kg-dry	Prep Date:	RunNo: 12313
Client ID: PBS	Batch ID: R12313	TestNo: SW9060		Analysis Date: 11/8/2013	SeqNo: 157319
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Organic Carbon	ND	100			

Sample ID: 1311004-001BDUP	SampType: DUP	TestCode: TOC_S	Units: mg/Kg-dry	Prep Date:	RunNo: 12313
Client ID: Solids-1	Batch ID: R12313	TestNo: SW9060		Analysis Date: 11/8/2013	SeqNo: 157321
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Organic Carbon	6870	100			8187 17.5 20

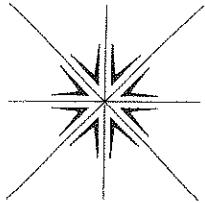
Sample ID: R12313CCV	SampType: CCV	TestCode: TOC_S	Units: mg/Kg-dry	Prep Date:	RunNo: 12313
Client ID: CCV	Batch ID: R12313	TestNo: SW9060		Analysis Date: 11/8/2013	SeqNo: 157323
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Organic Carbon	992	100	1000	0	99.2 80 120

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded			ND	Not Detected at the Reporting Limit		Page 19 of 19
	O	RSD is greater than RSDLimit	R	RPD outside accepted recovery limits			S	Spike Recovery outside accepted reco		

KEY TO FLAGS

Rev. May 12, 2010

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
- A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
- A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
- A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
- A4 The product appears to be aged or degraded diesel.
- B The blank exhibited a positive result greater than the reporting limit for this compound.
- CN See Case Narrative.
- D Result is based from a dilution.
- E Result exceeds the calibration range for this compound. The result should be considered as estimate.
- F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
- G Result may be biased high due to biogenic interferences. Clean up is recommended.
- H Sample was analyzed outside recommended holding time.
- HT At clients request, samples was analyzed outside of recommended holding time.
- J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
- K Diesel result is biased high due to amount of Oil contained in the sample.
- L Diesel result is biased high due to amount of Gasoline contained in the sample.
- M Oil result is biased high due to amount of Diesel contained in the sample.
- MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
- MI Result is outside control limits due to matrix interference.
- MSA Value determined by Method of Standard Addition.
- O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
- Q Detection levels elevated due to sample matrix.
- R RPD control limits were exceeded.
- RF Duplicate failed due to result being at or near the method-reporting limit.
- RP Matrix spike values exceed established QC limits; post digestion spike is in control.
- S Recovery is outside control limits.
- SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- * The result for this parameter was greater than the maximum contaminant level of the TCLP regulatory limit.



CHAIN OF CUSTODY RECORD

Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Collected By:

Signature

Printed Munda Burger

Signature..

Printed _____

Turn Around Time

Normal 5-7 Business Days

Rush _____

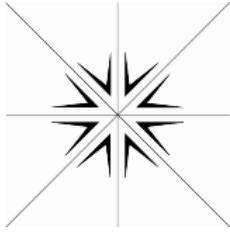
Specify

Rush Analyses Must Be Scheduled With The Lab In Advance

Contact Person/Project Manager Scott Miller
Company SLR International Corporation
Address 1800 Blankenship Road Suite 440
West Univ., OR 97068
Phone 503-723-4423 Fax 503-723-4436
Project No. 108.00395.00101 Project Name Lampros Properties
Project Site Location OR X WA _____ Other _____
Invoice To SLR P.O. No. _____

Signature _____				No. of Containers	Analyses							For Laboratory Use					
					Metals	PCBs	Phthalates	PAHs	TPH	TOC	FSS						
Printed _____					X	X	X	X	X	X			Lab Job No. <u>311004</u>	Shipped Via <u>Client</u>	Air Bill No. _____		
Turn Around Time													Temperature On Receipt <u>Amb</u> °C	Specialty Analytical Containers? Y / N	Specialty Analytical Trip Blanks? Y / N		
<input checked="" type="checkbox"/> Normal 5-7 Business Days <input type="checkbox"/> Rush _____																	
Specify _____																	
Rush Analyses Must Be Scheduled With The Lab In Advance																	
Date	Time	Sample I.D.		Matrix	3	M	P	B	A	H	T	O	C	F	S	Comments	Lab I.D.
11.1.13	1030	Solids-1		Solids		X	X	X	X	X	X	X	X			analyze with low detection limits for comparison with Portland Harbor Screening levels. copy of analyses made	
Relinquished By: <u>Melissa</u> Company: <u>SUR International</u>				Date <u>11.1.13</u>	Time <u>1130</u>	Received By: Company:				Relinquished By: Company:				Date	Time		
Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt. Samples held beyond 60 days subject to storage fee(s)										Received For Lab By: <u>[Signature]</u>				Date <u>11/13</u>	Time <u>1130</u>		

STORMWATER



Specialty Analytical

11711 SE Capps Road, Ste B
Clackamas, Oregon 97015
TEL: 503-607-1331 FAX: 503-607-1336
Website: www.specialtyanalytical.com

June 18, 2012

Scott Miller
SLR International Corp.
1800 Blankenship Rd.
Ste 440
West Linn, Oregon 97068

TEL: (503) 723-4423
FAX
RE: Lundros Steel

Dear Scott Miller:

Order No.: 1206072

Specialty Analytical received 1 sample(s) on 6/8/2012 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications, except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

Marty French
Lab Director

Specialty Analytical

Date Reported: 18-Jun-12

CLIENT: SLR International Corp. **Collection Date:** 6/8/2012 3:45:00 PM
Project: Lundros Steel
Lab ID: 1206072-001
Client Sample ID: CB11 **Matrix:** GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NWTPH-DX - RBC		NWTPH-DX				Analyst: kbh
Diesel	1.40	0.154		mg/L	2	6/12/2012 1:42:00 PM
Lube Oil	4.86	0.385		mg/L	2	6/12/2012 1:42:00 PM
Surr: o-Terphenyl	150	50-150		%REC	2	6/12/2012 1:42:00 PM
NWTPH-GX		NWTPH-GX				Analyst: jrp
Gasoline	ND	100		µg/L	1	6/12/2012 9:00:00 AM
Surr: 4-Bromofluorobenzene	104	50-150		%REC	1	6/12/2012 9:00:00 AM
ICP METALS- TOTAL RECOVERABLE		SW6010C				Analyst: CT
Aluminum	8.21	0.0500		mg/L	1	6/12/2012 12:56:11 PM
Antimony	ND	0.0200		mg/L	1	6/13/2012 4:19:34 PM
Arsenic	ND	0.0200		mg/L	1	6/12/2012 12:56:11 PM
Cadmium	ND	0.0010		mg/L	1	6/12/2012 12:56:11 PM
Chromium	0.0195	0.0050		mg/L	1	6/12/2012 12:56:11 PM
Copper	0.0479	0.0100		mg/L	1	6/12/2012 12:56:11 PM
Magnesium	1.48	0.100		mg/L	1	6/12/2012 12:56:11 PM
Manganese	0.298	0.0010		mg/L	1	6/12/2012 12:56:11 PM
Nickel	0.0116	0.0050		mg/L	1	6/12/2012 12:56:11 PM
Silver	ND	0.0100		mg/L	1	6/12/2012 12:56:11 PM
Zinc	0.371	0.0100		mg/L	1	6/12/2012 12:56:11 PM
ICP/MS METALS-TOTAL RECOVERABLE		SW6020A				Analyst: CT
Lead	26.8	0.100		µg/L	1	6/13/2012 5:36:00 PM
TOTAL MERCURY		E7470A				Analyst: CT
Mercury	ND	0.00010		mg/L	1	6/13/2012 12:56:59 PM
SEMI-VOLATILE COMPOUNDS - BASE/NEUTRAL		SW8270D				Analyst: bda
2-Chloronaphthalene	ND	0.954		µg/L	1	6/13/2012 12:00:00 PM
Bis(2-ethylhexyl)phthalate	2.89	0.954		µg/L	1	6/13/2012 12:00:00 PM
Butyl benzyl phthalate	ND	0.954		µg/L	1	6/13/2012 12:00:00 PM
Diethyl phthalate	ND	0.954		µg/L	1	6/13/2012 12:00:00 PM
Dimethyl phthalate	ND	0.954		µg/L	1	6/13/2012 12:00:00 PM
Di-n-butyl phthalate	ND	0.954		µg/L	1	6/13/2012 12:00:00 PM
Di-n-octyl phthalate	ND	0.954		µg/L	1	6/13/2012 12:00:00 PM
Surr: 2-Fluorobiphenyl	72.1	33.1-96.2		%REC	1	6/13/2012 12:00:00 PM
Surr: 4-Terphenyl-d14	92.8	41-122		%REC	1	6/13/2012 12:00:00 PM
Surr: Nitrobenzene-d5	68.2	28.9-99.9		%REC	1	6/13/2012 12:00:00 PM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: jrp

Specialty Analytical

Date Reported: 18-Jun-12

CLIENT: SLR International Corp. **Collection Date:** 6/8/2012 3:45:00 PM
Project: Lundros Steel
Lab ID: 1206072-001
Client Sample ID: CB11 **Matrix:** GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PAH'S BY GC/MS - LOW LEVEL						
		SW8270D				Analyst: jrp
1-Methylnaphthalene	0.096	0.048		µg/L	1	6/13/2012 4:17:00 PM
2-Methylnaphthalene	0.144	0.048		µg/L	1	6/13/2012 4:17:00 PM
Acenaphthene	ND	0.048		µg/L	1	6/13/2012 4:17:00 PM
Acenaphthylene	ND	0.048		µg/L	1	6/13/2012 4:17:00 PM
Anthracene	ND	0.048		µg/L	1	6/13/2012 4:17:00 PM
Benzo(a)pyrene	0.134	0.048		µg/L	1	6/13/2012 4:17:00 PM
Benzo(b)fluoranthene	0.240	0.048		µg/L	1	6/13/2012 4:17:00 PM
Benzo(g,h,i)perylene	0.336	0.048		µg/L	1	6/13/2012 4:17:00 PM
Benzo(k)fluoranthene	0.067	0.048		µg/L	1	6/13/2012 4:17:00 PM
Benzo[a]anthracene	0.393	0.048		µg/L	1	6/13/2012 4:17:00 PM
Chrysene	ND	0.048		µg/L	1	6/13/2012 4:17:00 PM
Dibenz(a,h)anthracene	0.058	0.048		µg/L	1	6/13/2012 4:17:00 PM
Fluoranthene	0.307	0.048		µg/L	1	6/13/2012 4:17:00 PM
Fluorene	ND	0.048		µg/L	1	6/13/2012 4:17:00 PM
Indeno(1,2,3-cd)pyrene	0.115	0.048		µg/L	1	6/13/2012 4:17:00 PM
Naphthalene	0.259	0.048		µg/L	1	6/13/2012 4:17:00 PM
Phenanthrene	0.201	0.048		µg/L	1	6/13/2012 4:17:00 PM
Pyrene	0.384	0.048		µg/L	1	6/13/2012 4:17:00 PM
Surr: 2-Fluorobiphenyl	86.5	18.6-106		%REC	1	6/13/2012 4:17:00 PM
Surr: Nitrobenzene-d5	53.6	17-130		%REC	1	6/13/2012 4:17:00 PM
Surr: Terphenyl-d14	96.5	39.6-131		%REC	1	6/13/2012 4:17:00 PM
PCB'S IN WATER						
		SW 8082A				Analyst: jrp
Aroclor 1016	ND	0.019		µg/L	1	6/12/2012 3:00:00 PM
Aroclor 1221	ND	0.019		µg/L	1	6/12/2012 3:00:00 PM
Aroclor 1232	ND	0.019		µg/L	1	6/12/2012 3:00:00 PM
Aroclor 1242	ND	0.019		µg/L	1	6/12/2012 3:00:00 PM
Aroclor 1248	0.210	0.019		µg/L	1	6/12/2012 3:00:00 PM
Aroclor 1254	ND	0.019		µg/L	1	6/12/2012 3:00:00 PM
Aroclor 1260	ND	0.019		µg/L	1	6/12/2012 3:00:00 PM
Aroclor 1262	ND	0.019		µg/L	1	6/12/2012 3:00:00 PM
Aroclor 1268	ND	0.019		µg/L	1	6/12/2012 3:00:00 PM
Surr: Decachlorobiphenyl	50.7	56.9-123	SMI	%REC	1	6/12/2012 3:00:00 PM
ORGANIC CARBON, TOTAL						
Organic Carbon, Total	4.84	1.00		mg/L	1	6/13/2012 8:42:00 AM
TOTAL SUSPENDED SOLIDS						
Total Suspended Solids	267	5.00		mg/L	1	6/12/2012 4:56:51 PM

QC SUMMARY REPORT

WO#: 1206072
18-Jun-12

Specialty Analytical

Client: SLR International Corp.

Project: Lundros Steel

TestCode: 6010_W

Sample ID: ICV	SampType: ICV	TestCode: 6010_W	Units: mg/L	Prep Date:			RunNo: 4769				
Client ID: ICV	Batch ID: 2802	TestNo: SW6010C	SW3010A	Analysis Date: 6/12/2012			SeqNo: 63391				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	2.56	0.0500	2.500	0	102	90	110				
Arsenic	0.987	0.0200	1.000	0	98.7	90	110				
Cadmium	0.0489	0.0010	0.05000	0	97.8	90	110				
Chromium	0.249	0.0050	0.2500	0	99.4	90	110				
Copper	0.497	0.0100	0.5000	0	99.3	90	110				
Magnesium	5.11	0.100	5.000	0	102	90	110				
Manganese	0.0498	0.0010	0.05000	0	99.6	90	110				
Nickel	0.256	0.0050	0.2500	0	103	90	110				
Silver	0.516	0.0100	0.5000	0	103	90	110				
Zinc	0.514	0.0100	0.5000	0	103	90	110				

Sample ID: MBLK-2802	SampType: MBLK	TestCode: 6010_W	Units: mg/L	Prep Date: 6/12/2012			RunNo: 4769				
Client ID: PBW	Batch ID: 2802	TestNo: SW6010C	SW3010A	Analysis Date: 6/12/2012			SeqNo: 63393				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	0.0500									
Arsenic	ND	0.0200									
Cadmium	ND	0.0010									
Chromium	ND	0.0050									
Copper	ND	0.0100									
Magnesium	ND	0.100									
Manganese	ND	0.0010									
Nickel	ND	0.0050									
Silver	ND	0.0100									
Zinc	ND	0.0100									

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 1 of 21

QC SUMMARY REPORT

WO#: 1206072
18-Jun-12

Specialty Analytical

Client: SLR International Corp.

Project: Lundros Steel

TestCode: 6010_W

Sample ID: LCS-2802	SampType: LCS	TestCode: 6010_W	Units: mg/L	Prep Date: 6/12/2012	RunNo: 4769
Client ID: LCSW	Batch ID: 2802	TestNo: SW6010C	SW3010A	Analysis Date: 6/12/2012	SeqNo: 63394
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Aluminum	2.60	0.0500	2.500	0	104
Arsenic	1.02	0.0200	1.000	0	102
Cadmium	0.0507	0.0010	0.05000	0	101
Chromium	0.266	0.0050	0.2500	0	106
Copper	0.519	0.0100	0.5000	0	104
Magnesium	5.30	0.100	5.000	0	106
Manganese	0.0520	0.0010	0.05000	0	104
Nickel	0.263	0.0050	0.2500	0	105
Silver	0.544	0.0100	0.5000	0	109
Zinc	0.527	0.0100	0.5000	0	105

Sample ID: 1206040-002CDUP	SampType: DUP	TestCode: 6010_W	Units: mg/L	Prep Date: 6/12/2012	RunNo: 4769
Client ID: ZZZZZZ	Batch ID: 2802	TestNo: SW6010C	SW3010A	Analysis Date: 6/12/2012	SeqNo: 63397
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Aluminum	0.232	0.0500			0.2190
Arsenic	ND	0.0200			0
Cadmium	ND	0.0010			0
Chromium	0.0078	0.0050			0
Copper	ND	0.0100			0
Magnesium	4.32	0.100			4.243
Manganese	0.0067	0.0010			0.005000
Nickel	ND	0.0050			0
Silver	ND	0.0100			0
Zinc	ND	0.0100			0

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 2 of 21

QC SUMMARY REPORT

WO#: 1206072
18-Jun-12

Specialty Analytical

Client: SLR International Corp.

Project: Lundros Steel

TestCode: 6010_W

Sample ID: 1206040-002CMS	SampType: MS	TestCode: 6010_W	Units: mg/L	Prep Date: 6/12/2012	RunNo: 4769
Client ID: ZZZZZZ	Batch ID: 2802	TestNo: SW6010C	SW3010A	Analysis Date: 6/12/2012	SeqNo: 63398
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Aluminum	2.95	0.0500	2.500	0.2190	109
Arsenic	1.03	0.0200	1.000	0	103
Cadmium	0.0509	0.0010	0.05000	0	102
Chromium	0.267	0.0050	0.2500	0	107
Copper	0.527	0.0100	0.5000	0	105
Magnesium	9.87	0.100	5.000	4.243	113
Manganese	0.0594	0.0010	0.05000	0.005000	109
Nickel	0.262	0.0050	0.2500	0	105
Silver	0.553	0.0100	0.5000	0	111
Zinc	0.532	0.0100	0.5000	0	106
<hr/>					

Sample ID: 1206040-002CMSD	SampType: MSD	TestCode: 6010_W	Units: mg/L	Prep Date: 6/12/2012	RunNo: 4769
Client ID: ZZZZZZ	Batch ID: 2802	TestNo: SW6010C	SW3010A	Analysis Date: 6/12/2012	SeqNo: 63399
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Aluminum	2.89	0.0500	2.500	0.2190	107
Arsenic	0.999	0.0200	1.000	0	99.9
Cadmium	0.0499	0.0010	0.05000	0	99.8
Chromium	0.257	0.0050	0.2500	0	103
Copper	0.512	0.0100	0.5000	0	102
Magnesium	9.51	0.100	5.000	4.243	105
Manganese	0.0591	0.0010	0.05000	0.005000	108
Nickel	0.256	0.0050	0.2500	0	102
Silver	0.533	0.0100	0.5000	0	107
Zinc	0.520	0.0100	0.5000	0	104
<hr/>					

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 3 of 21

QC SUMMARY REPORT

WO#: 1206072
18-Jun-12

Specialty Analytical

Client: SLR International Corp.

Project: Lundros Steel

TestCode: 6010_W

Sample ID: CCV	SampType: CCV	TestCode: 6010_W	Units: mg/L	Prep Date:			RunNo: 4769				
Client ID: CCV	Batch ID: 2802	TestNo: SW6010C	SW3010A	Analysis Date: 6/12/2012			SeqNo: 63403				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	2.62	0.0500	2.500	0	105	90	110				
Arsenic	1.02	0.0200	1.000	0	102	90	110				
Cadmium	0.0506	0.0010	0.05000	0	101	90	110				
Chromium	0.253	0.0050	0.2500	0	101	90	110				
Copper	0.511	0.0100	0.5000	0	102	90	110				
Magnesium	5.29	0.100	5.000	0	106	90	110				
Manganese	0.0510	0.0010	0.05000	0	102	90	110				
Nickel	0.260	0.0050	0.2500	0	104	90	110				
Silver	0.536	0.0100	0.5000	0	107	90	110				
Zinc	0.522	0.0100	0.5000	0	104	90	110				
Sample ID: ICV	SampType: ICV	TestCode: 6010_W	Units: mg/L	Prep Date:			RunNo: 4769				
Client ID: ICV	Batch ID: 2802	TestNo: SW6010C	SW3010A	Analysis Date: 6/13/2012			SeqNo: 63638				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.477	0.0200	0.5000	0	95.3	90	110				
Sample ID: MBLK-2802	SampType: MBLK	TestCode: 6010_W	Units: mg/L	Prep Date: 6/12/2012			RunNo: 4769				
Client ID: PBW	Batch ID: 2802	TestNo: SW6010C	SW3010A	Analysis Date: 6/13/2012			SeqNo: 63639				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.0200									

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 4 of 21

QC SUMMARY REPORT

WO#: 1206072
18-Jun-12

Specialty Analytical

Client: SLR International Corp.

Project: Lundros Steel

TestCode: 6010_W

Sample ID: LCS-2802	SampType: LCS	TestCode: 6010_W	Units: mg/L	Prep Date: 6/12/2012	RunNo: 4769						
Client ID: LCSW	Batch ID: 2802	TestNo: SW6010C	SW3010A	Analysis Date: 6/13/2012	SeqNo: 63640						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.475	0.0200	0.5000	0	95.0	91.2	113				
<hr/>											
Sample ID: 1206040-002CDUP	SampType: DUP	TestCode: 6010_W	Units: mg/L	Prep Date: 6/12/2012	RunNo: 4769						
Client ID: ZZZZZZ	Batch ID: 2802	TestNo: SW6010C	SW3010A	Analysis Date: 6/13/2012	SeqNo: 63643						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.0200							0	0	20
<hr/>											
Sample ID: 1206040-002CMS	SampType: MS	TestCode: 6010_W	Units: mg/L	Prep Date: 6/12/2012	RunNo: 4769						
Client ID: ZZZZZZ	Batch ID: 2802	TestNo: SW6010C	SW3010A	Analysis Date: 6/13/2012	SeqNo: 63644						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.612	0.0200	0.5000	0.01200	120	86.6	116				S
<hr/>											
Sample ID: 1206040-002CMSD	SampType: MSD	TestCode: 6010_W	Units: mg/L	Prep Date: 6/12/2012	RunNo: 4769						
Client ID: ZZZZZZ	Batch ID: 2802	TestNo: SW6010C	SW3010A	Analysis Date: 6/13/2012	SeqNo: 63645						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.523	0.0200	0.5000	0.01200	102	86.6	116	0.6121	15.7	20	

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 5 of 21

QC SUMMARY REPORT

WO#: 1206072
18-Jun-12

Specialty Analytical

Client: SLR International Corp.

Project: Lundros Steel

TestCode: 6020_W

Sample ID: ICV	SampType: ICV	TestCode: 6020_W	Units: µg/L	Prep Date:			RunNo: 4791				
Client ID: ICV	Batch ID: 2816	TestNo: SW6020A	SW3010A	Analysis Date: 6/13/2012			SeqNo: 63740				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	49.8	0.100	50.00	0	99.6	90	110				
Sample ID: MBLK-2816	SampType: MBLK	TestCode: 6020_W	Units: µg/L	Prep Date: 6/13/2012			RunNo: 4791				
Client ID: PBW	Batch ID: 2816	TestNo: SW6020A	SW3010A	Analysis Date: 6/13/2012			SeqNo: 63743				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.100									
Sample ID: LCS-2816	SampType: LCS	TestCode: 6020_W	Units: µg/L	Prep Date: 6/13/2012			RunNo: 4791				
Client ID: LCSW	Batch ID: 2816	TestNo: SW6020A	SW3010A	Analysis Date: 6/13/2012			SeqNo: 63744				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	50.3	0.100	50.00	0	101	80	120				
Sample ID: A1206083-001ADUP	SampType: DUP	TestCode: 6020_W	Units: µg/L	Prep Date: 6/13/2012			RunNo: 4791				
Client ID: ZZZZZZ	Batch ID: 2816	TestNo: SW6020A	SW3010A	Analysis Date: 6/13/2012			SeqNo: 63746				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.331	0.100				0.3267	1.40	20			
Sample ID: A1206083-001AMS	SampType: MS	TestCode: 6020_W	Units: µg/L	Prep Date: 6/13/2012			RunNo: 4791				
Client ID: ZZZZZZ	Batch ID: 2816	TestNo: SW6020A	SW3010A	Analysis Date: 6/13/2012			SeqNo: 63747				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	51.0	0.100	50.00	0.3267	101	70	130				

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 6 of 21

QC SUMMARY REPORT

WO#: 1206072
18-Jun-12

Specialty Analytical

Client: SLR International Corp.

Project: Lundros Steel

TestCode: 6020_W

Sample ID: A1206083-001AMSD	SampType: MSD	TestCode: 6020_W	Units: µg/L	Prep Date: 6/13/2012	RunNo: 4791
Client ID: ZZZZZZ	Batch ID: 2816	TestNo: SW6020A	SW3010A	Analysis Date: 6/13/2012	SeqNo: 63748
Analyte					
Lead	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	49.6	0.100	50.00	0.3267	98.4
Sample ID: CCV	SampType: CCV	TestCode: 6020_W	Units: µg/L	Prep Date:	RunNo: 4791
Client ID: CCV	Batch ID: 2816	TestNo: SW6020A	SW3010A	Analysis Date: 6/13/2012	SeqNo: 63757
Analyte					
Lead	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	50.4	0.100	50.00	0	101

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 7 of 21

QC SUMMARY REPORT

WO#: 1206072
18-Jun-12

Specialty Analytical

Client: SLR International Corp.

Project: Lundros Steel

TestCode: 8082LL_W

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_W	Units: µg/L	Prep Date:			RunNo: 4777				
Client ID: CCV	Batch ID: 2796	TestNo: SW 8082A	SW3510_PC	Analysis Date: 6/12/2012			SeqNo: 63485				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260

2.00 0.020 2.000 0 100 85 115

Aroclor 1248

2.00 0.020 2.000 0 100 85 115

Sample ID: MB-2796	SampType: MBLK	TestCode: 8082LL_W	Units: µg/L	Prep Date: 6/11/2012			RunNo: 4777				
Client ID: PBW	Batch ID: 2796	TestNo: SW 8082A	SW3510_PC	Analysis Date: 6/12/2012			SeqNo: 63486				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016

ND 0.020

Aroclor 1221

ND 0.020

Aroclor 1232

ND 0.020

Aroclor 1242

ND 0.020

Aroclor 1248

ND 0.020

Aroclor 1254

ND 0.020

Aroclor 1260

ND 0.020

Aroclor 1262

ND 0.020

Aroclor 1268

ND 0.020

Surr: Decachlorobiphenyl

165 200.0 82.6 56.9 123

Sample ID: LCS-2796	SampType: LCS	TestCode: 8082LL_W	Units: µg/L	Prep Date: 6/11/2012			RunNo: 4777				
Client ID: LCSW	Batch ID: 2796	TestNo: SW 8082A	SW3510_PC	Analysis Date: 6/12/2012			SeqNo: 63487				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260

1.42 0.020 2.000 0 71.0 40.4 110

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit	Page 8 of 21
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits			

QC SUMMARY REPORT

WO#: 1206072
18-Jun-12

Specialty Analytical

Client: SLR International Corp.

Project: Lundros Steel

TestCode: 8082LL_W

Sample ID: LCSD-2796	SampType: LCSD	TestCode: 8082LL_W	Units: µg/L	Prep Date: 6/11/2012	RunNo: 4777
Client ID: LCSS02	Batch ID: 2796	TestNo: SW 8082A	SW3510_PC	Analysis Date: 6/12/2012	SeqNo: 63488
Analyte					
Aroclor 1016/1260	Result	PQL	SPK value	SPK Ref Val	%REC
	1.38	0.020	2.000	0	69.0
				40.4	110
				1.420	2.86
					20
Sample ID: CCV	SampType: CCV	TestCode: 8082LL_W	Units: µg/L	Prep Date:	RunNo: 4777
Client ID: CCV	Batch ID: 2796	TestNo: SW 8082A	SW3510_PC	Analysis Date: 6/12/2012	SeqNo: 63497
Analyte					
Aroclor 1016/1260	Result	PQL	SPK value	SPK Ref Val	%REC
	2.20	0.020	2.000	0	110
					85
					115
Aroclor 1248		0.020	2.000	0	107
					85
					115

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 9 of 21

QC SUMMARY REPORT

WO#: 1206072
18-Jun-12

Specialty Analytical

Client: SLR International Corp.

Project: Lundros Steel

TestCode: 8270BN_W

Sample ID: CCV-2804	SampType: CCV	TestCode: 8270BN_W	Units: µg/L	Prep Date:	RunNo: 4771
Client ID: CCV	Batch ID: 2804	TestNo: SW8270D	SW 3510C	Analysis Date: 6/13/2012	SeqNo: 63407
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Di-n-octyl phthalate	39.2	1.00	40.00	0	98.0
				80	120
<hr/>					
Sample ID: MB-2804	SampType: MBLK	TestCode: 8270BN_W	Units: µg/L	Prep Date: 6/12/2012	RunNo: 4771
Client ID: PBW	Batch ID: 2804	TestNo: SW8270D	SW 3510C	Analysis Date: 6/13/2012	SeqNo: 63410
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
2-Chloronaphthalene	ND	1.00			
Bis(2-ethylhexyl)phthalate	ND	1.00			
Butyl benzyl phthalate	ND	1.00			
Diethyl phthalate	ND	1.00			
Dimethyl phthalate	ND	1.00			
Di-n-butyl phthalate	ND	1.00			
Di-n-octyl phthalate	ND	1.00			
Surr: 2-Fluorobiphenyl	45.0		100.0	45.0	33.1
Surr: 4-Terphenyl-d14	60.7		100.0	60.7	41
Surr: Nitrobenzene-d5	50.8		100.0	50.8	28.9
					99.9

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 10 of 21

QC SUMMARY REPORT

WO#: 1206072
18-Jun-12

Specialty Analytical

Client: SLR International Corp.

Project: Lundros Steel

TestCode: HG_CT

Sample ID:	MB-2813	SampType:	MBLK	TestCode:	HG_CT	Units:	mg/L	Prep Date:	6/13/2012	RunNo:	4773	
Client ID:	PBW	Batch ID:	2813	TestNo:	E7470A	E245.1		Analysis Date:	6/13/2012	SeqNo:	63419	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		ND	0.00010									
Sample ID:	LCS-2813	SampType:	LCS	TestCode:	HG_CT	Units:	mg/L	Prep Date:	6/13/2012	RunNo:	4773	
Client ID:	LCSW	Batch ID:	2813	TestNo:	E7470A	E245.1		Analysis Date:	6/13/2012	SeqNo:	63420	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.00407	0.00010	0.004000	0	102	85.4	116				
Sample ID:	CCV	SampType:	CCV	TestCode:	HG_CT	Units:	mg/L	Prep Date:		RunNo:	4773	
Client ID:	CCV	Batch ID:	2813	TestNo:	E7470A	E245.1		Analysis Date:	6/13/2012	SeqNo:	63433	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.00378	0.00010	0.004000	0	94.6	90	110				
Sample ID:	CCV	SampType:	CCV	TestCode:	HG_CT	Units:	mg/L	Prep Date:		RunNo:	4773	
Client ID:	CCV	Batch ID:	2813	TestNo:	E7470A	E245.1		Analysis Date:	6/13/2012	SeqNo:	63434	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.00439	0.00010	0.004000	0	110	90	110				
Sample ID:	CCV	SampType:	CCV	TestCode:	HG_CT	Units:	mg/L	Prep Date:		RunNo:	4773	
Client ID:	CCV	Batch ID:	2813	TestNo:	E7470A	E245.1		Analysis Date:	6/13/2012	SeqNo:	63435	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.00402	0.00010	0.004000	0	101	90	110				

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 11 of 21

QC SUMMARY REPORT

WO#: 1206072
18-Jun-12

Specialty Analytical

Client: SLR International Corp.

Project: Lundros Steel

TestCode: HG_CT

Sample ID: A1206078-001ADUP		SampType: DUP	TestCode: HG_CT	Units: mg/L	Prep Date: 6/13/2012		RunNo: 4773					
Client ID: ZZZZZZ		Batch ID: 2813	TestNo: E7470A	E245.1	Analysis Date: 6/13/2012		SeqNo: 63438					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		ND	0.00010							0	0	20
Sample ID: A1206078-001AMS		SampType: MS	TestCode: HG_CT	Units: mg/L	Prep Date: 6/13/2012		RunNo: 4773					
Client ID: ZZZZZZ		Batch ID: 2813	TestNo: E7470A	E245.1	Analysis Date: 6/13/2012		SeqNo: 63439					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.00286	0.00010	0.004000	0	71.6	69.5	125				
Sample ID: A1206078-001AMSD		SampType: MSD	TestCode: HG_CT	Units: mg/L	Prep Date: 6/13/2012		RunNo: 4773					
Client ID: ZZZZZZ		Batch ID: 2813	TestNo: E7470A	E245.1	Analysis Date: 6/13/2012		SeqNo: 63440					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.00256	0.00010	0.004000	0	64.0	69.5	125	0.002863	11.1	20	S

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 12 of 21

QC SUMMARY REPORT

WO#: 1206072
18-Jun-12

Specialty Analytical

Client: SLR International Corp.

Project: Lundros Steel

TestCode: NWTPHDXL_W

Sample ID:	CCV	SampType:	CCV	TestCode:	NWTPHDXL_W	Units:	mg/L	Prep Date:			RunNo: 4763		
Client ID:	CCV	Batch ID:	2797	TestNo:	NWTPH-Dx SW3510B	Analysis Date:			6/12/2012	SeqNo: 63332			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Diesel		6.39	0.080	6.062	0	105	85	115					
Hydraulic Oil		3.35	0.200	3.038	0	110	85	115					
Lube Oil		3.27	0.200	3.191	0	103	85	115					
Sample ID:	MB-2797	SampType:	MBLK	TestCode:	NWTPHDXL_W	Units:	mg/L	Prep Date:			RunNo: 4763		
Client ID:	PBW	Batch ID:	2797	TestNo:	NWTPH-Dx SW3510B	Analysis Date:			6/12/2012	SeqNo: 63333			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Diesel		ND	0.080										
Hydraulic Oil		ND	0.200										
Lube Oil		ND	0.200										
Surf: o-Terphenyl		0.239		0.2000			120	50	150				
Sample ID:	LCS-2797	SampType:	LCS	TestCode:	NWTPHDXL_W	Units:	mg/L	Prep Date:			RunNo: 4763		
Client ID:	LCSW	Batch ID:	2797	TestNo:	NWTPH-Dx SW3510B	Analysis Date:			6/12/2012	SeqNo: 63334			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Diesel		1.06	0.080	1.000	0	106	60.7	121					
Lube Oil		0.927	0.200	1.000	0	92.7	64	126					
Sample ID:	LCSD-2797	SampType:	LCSD	TestCode:	NWTPHDXL_W	Units:	mg/L	Prep Date:			RunNo: 4763		
Client ID:	LCSS02	Batch ID:	2797	TestNo:	NWTPH-Dx SW3510B	Analysis Date:			6/12/2012	SeqNo: 63335			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Diesel		0.999	0.080	1.000	0	99.9	60.7	121	1.059	5.81	20		

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 13 of 21

QC SUMMARY REPORT

WO#: 1206072
18-Jun-12

Specialty Analytical

Client: SLR International Corp.

Project: Lundros Steel

TestCode: NWTPHDXL_W

Sample ID: LCSD-2797	SampType: LCSD	TestCode: NWTPHDXL	Units: mg/L	Prep Date: 6/11/2012	RunNo: 4763
Client ID: LCSS02	Batch ID: 2797	TestNo: NWTPH-Dx	SW3510B	Analysis Date: 6/12/2012	SeqNo: 63335
Analyte					
Lube Oil	Result	PQL	SPK value	SPK Ref Val	%REC
	0.962	0.200	1.000	0	96.2
				64	126
				0.9272	3.65
					20
Sample ID: CCV	SampType: CCV	TestCode: NWTPHDXL	Units: mg/L	Prep Date:	RunNo: 4763
Client ID: CCV	Batch ID: 2797	TestNo: NWTPH-Dx	SW3510B	Analysis Date: 6/12/2012	SeqNo: 63338
Analyte					
Diesel	Result	PQL	SPK value	SPK Ref Val	%REC
	8.64	0.080	8.083	0	107
Hydraulic Oil					85
	4.42	0.200	4.253	0	104
Lube Oil					115
	4.41	0.200	4.254	0	85
					115

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 14 of 21

QC SUMMARY REPORT

WO#: 1206072
18-Jun-12

Specialty Analytical

Client: SLR International Corp.

Project: Lundros Steel

TestCode: NWTPHGX_W

Sample ID:	LCS-4741	SampType:	LCS	TestCode:	NWTPHGX_	Units:	µg/L	Prep Date:		RunNo:	4741	
Client ID:	LCSW	Batch ID:	R4741	TestNo:	NWTPH-Gx				Analysis Date:	6/12/2012	SeqNo:	63140
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline		1940	100	2000	0	97.2	74.4	128				
Sample ID: MB-4741		SampType: MBLK		TestCode: NWTPHGX_	Units: µg/L		Prep Date:		RunNo:	4741		
Client ID:	PBW	Batch ID:	R4741	TestNo:	NWTPH-Gx				Analysis Date:	6/12/2012	SeqNo:	63141
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline		ND	100									
Surr: 4-Bromofluorobenzene		103		100.0		103	50	150				
Sample ID: 1206072-001FDUP		SampType: DUP		TestCode: NWTPHGX_	Units: µg/L		Prep Date:		RunNo:	4741		
Client ID:	CB11	Batch ID:	R4741	TestNo:	NWTPH-Gx <th data-cs="3" data-kind="parent"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th>Analysis Date:</th> <td>6/12/2012</td> <th>SeqNo:</th> <td>63143</td>				Analysis Date:	6/12/2012	SeqNo:	63143
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline		ND	100						0	0	20	
Sample ID: CCV		SampType: CCV		TestCode: NWTPHGX_	Units: µg/L		Prep Date:		RunNo:	4741		
Client ID:	CCV	Batch ID:	R4741	TestNo:	NWTPH-Gx <th data-cs="3" data-kind="parent"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th>Analysis Date:</th> <td>6/12/2012</td> <th>SeqNo:</th> <td>63144</td>				Analysis Date:	6/12/2012	SeqNo:	63144
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline		2920	100	3000	0	97.5	80	120				

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 15 of 21

QC SUMMARY REPORT

WO#: 1206072
18-Jun-12

Specialty Analytical

Client: SLR International Corp.

Project: Lundros Steel

TestCode: PAHLL_W

Sample ID: CCV	SampType: CCV	TestCode: PAHLL_W	Units: µg/L	Prep Date:			RunNo: 4781		
Client ID: CCV	Batch ID: 2799	TestNo: SW8270D	SW 3510C	Analysis Date: 6/13/2012			SeqNo: 63527		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
1-Methylnaphthalene	2.22	0.050	2.000	0	111	80	120		
2-Methylnaphthalene	2.32	0.050	2.000	0	116	80	120		
Acenaphthene	1.86	0.050	2.000	0	93.0	80	120		
Acenaphthylene	1.77	0.050	2.000	0	88.5	80	120		
Anthracene	1.89	0.050	2.000	0	94.5	80	120		
Benzo(a)pyrene	1.93	0.050	2.000	0	96.5	80	120		
Benzo(b)fluoranthene	1.89	0.050	2.000	0	94.5	80	120		
Benzo(g,h,i)perylene	1.99	0.050	2.000	0	99.5	80	120		
Benzo(k)fluoranthene	1.82	0.050	2.000	0	91.0	80	120		
Benzo[a]anthracene	1.80	0.050	2.000	0	90.0	80	120		
Chrysene	1.91	0.050	2.000	0	95.5	80	120		
Dibenz(a,h)anthracene	2.04	0.050	2.000	0	102	80	120		
Fluoranthene	1.99	0.050	2.000	0	99.5	80	120		
Fluorene	1.91	0.050	2.000	0	95.5	80	120		
Indeno(1,2,3-cd)pyrene	1.97	0.050	2.000	0	98.5	80	120		
Naphthalene	2.08	0.050	2.000	0	104	80	120		
Phenanthrene	1.77	0.050	2.000	0	88.5	80	120		
Pyrene	1.75	0.050	2.000	0	87.5	80	120		

Sample ID: MB-2799	SampType: MBLK	TestCode: PAHLL_W	Units: µg/L	Prep Date: 6/11/2012			RunNo: 4781		
Client ID: PBW	Batch ID: 2799	TestNo: SW8270D	SW 3510C	Analysis Date: 6/13/2012			SeqNo: 63528		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
1-Methylnaphthalene	ND	0.050							
2-Methylnaphthalene	ND	0.050							

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 16 of 21

QC SUMMARY REPORT

WO#: 1206072
18-Jun-12

Specialty Analytical

Client: SLR International Corp.

Project: Lundros Steel

TestCode: PAHLL_W

Sample ID: MB-2799	SampType: MBLK	TestCode: PAHLL_W	Units: µg/L	Prep Date: 6/11/2012	RunNo: 4781						
Client ID: PBW	Batch ID: 2799	TestNo: SW8270D	SW 3510C	Analysis Date: 6/13/2012	SeqNo: 63528						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.050									
Acenaphthylene	ND	0.050									
Anthracene	ND	0.050									
Benzo(a)pyrene	ND	0.050									
Benzo(b)fluoranthene	ND	0.050									
Benzo(g,h,i)perylene	ND	0.050									
Benzo(k)fluoranthene	ND	0.050									
Benzo[a]anthracene	ND	0.050									
Chrysene	ND	0.050									
Dibenz(a,h)anthracene	ND	0.050									
Fluoranthene	ND	0.050									
Fluorene	ND	0.050									
Indeno(1,2,3-cd)pyrene	ND	0.050									
Naphthalene	ND	0.050									
Phenanthrene	ND	0.050									
Pyrene	ND	0.050									
Surr: 2-Fluorobiphenyl	71.6		100.0		71.6	18.6	106				
Surr: Nitrobenzene-d5	55.5		100.0		55.5	17	130				
Surr: Terphenyl-d14	90.2		100.0		90.2	39.6	131				

Sample ID: LCS-2799	SampType: LCS	TestCode: PAHLL_W	Units: µg/L	Prep Date: 6/11/2012	RunNo: 4781						
Client ID: LCSW	Batch ID: 2799	TestNo: SW8270D	SW 3510C	Analysis Date: 6/13/2012	SeqNo: 63532						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	3.29	0.050	5.000	0	65.8	35.1	100				

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded

S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 17 of 21

QC SUMMARY REPORT

WO#: 1206072
18-Jun-12

Specialty Analytical

Client: SLR International Corp.

Project: Lundros Steel

TestCode: PAHLL_W

Sample ID: LCS-2799	SampType: LCS	TestCode: PAHLL_W	Units: µg/L	Prep Date: 6/11/2012	RunNo: 4781
Client ID: LCSW	Batch ID: 2799	TestNo: SW8270D	SW 3510C	Analysis Date: 6/13/2012	SeqNo: 63532
Analyte					
Benzo(g,h,i)perylene	Result	PQL	SPK value	SPK Ref Val	%REC
Chrysene	3.69	0.050	5.000	0	73.8
Naphthalene	3.60	0.050	5.000	0	72.0
Phenanthrene	3.09	0.050	5.000	0	61.8
Pyrene	3.31	0.050	5.000	0	66.2
	3.90	0.050	5.000	0	78.0
				LowLimit	HighLimit
				41.3	120
				39.1	119
				25.6	106
				38.1	106
				118	
Analyte					
Sample ID: LCSD-2799	SampType: LCSD	TestCode: PAHLL_W	Units: µg/L	Prep Date: 6/11/2012	RunNo: 4781
Client ID: LCSS02	Batch ID: 2799	TestNo: SW8270D	SW 3510C	Analysis Date: 6/13/2012	SeqNo: 63534
Acenaphthene	Result	PQL	SPK value	SPK Ref Val	%REC
Benzo(g,h,i)perylene	3.55	0.050	5.000	0	71.0
Chrysene	3.84	0.050	5.000	0	76.8
Naphthalene	3.77	0.050	5.000	0	75.4
Phenanthrene	3.25	0.050	5.000	0	65.0
Pyrene	3.51	0.050	5.000	0	70.2
	4.06	0.050	5.000	0	81.2
				41.3	100
				39.1	120
				25.6	119
				38.1	106
				118	
				3.290	7.60
				3.690	3.98
				3.600	4.61
				3.090	5.05
				3.310	5.87
				3.900	4.02
					20
					20
					20
					20
					20

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 18 of 21

QC SUMMARY REPORT

WO#: 1206072
18-Jun-12

Specialty Analytical

Client: SLR International Corp.

Project: Lundros Steel

TestCode: TOC_W

Sample ID:	LCS-R4755	SampType:	LCS	TestCode:	TOC_W	Units:	mg/L	Prep Date:		RunNo:	4755	
Client ID:	LCSW	Batch ID:	R4755	TestNo:	M5310 B			Analysis Date:	6/11/2012	SeqNo:	63245	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total		4.52	1.00	5.000	0	90.4	84.1	109				
Sample ID:	MB-R4755	SampType:	MBLK	TestCode:	TOC_W	Units:	mg/L	Prep Date:		RunNo:	4755	
Client ID:	PBW	Batch ID:	R4755	TestNo:	M5310 B			Analysis Date:	6/11/2012	SeqNo:	63246	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total		ND	1.00									
Sample ID:	1206054-002EMS	SampType:	MS	TestCode:	TOC_W	Units:	mg/L	Prep Date:		RunNo:	4755	
Client ID:	ZZZZZZ	Batch ID:	R4755	TestNo:	M5310 B			Analysis Date:	6/11/2012	SeqNo:	63248	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total		23.6	4.00	5.000	18.36	104	74.7	121				
Sample ID:	1206054-002EMSD	SampType:	MSD	TestCode:	TOC_W	Units:	mg/L	Prep Date:		RunNo:	4755	
Client ID:	ZZZZZZ	Batch ID:	R4755	TestNo:	M5310 B			Analysis Date:	6/11/2012	SeqNo:	63249	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total		24.0	4.00	5.000	18.36	112	74.7	121	23.56	1.68	20	
Sample ID:	R4755CCV	SampType:	CCV	TestCode:	TOC_W	Units:	mg/L	Prep Date:		RunNo:	4755	
Client ID:	CCV	Batch ID:	R4755	TestNo:	M5310 B			Analysis Date:	6/11/2012	SeqNo:	63253	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total		10.4	1.00	10.00	0	104	90	110				

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 19 of 21

QC SUMMARY REPORT

WO#: 1206072
18-Jun-12

Specialty Analytical

Client: SLR International Corp.

Project: Lundros Steel

TestCode: TOC_W

Sample ID: CCB	SampType: CCB	TestCode: TOC_W	Units: mg/L	Prep Date:	RunNo: 4755
Client ID: CCB	Batch ID: R4755	TestNo: M5310 B		Analysis Date: 6/13/2012	SeqNo: 63721
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Organic Carbon, Total	ND	1.00			

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 20 of 21

QC SUMMARY REPORT

WO#: 1206072
18-Jun-12

Specialty Analytical

Client: SLR International Corp.

Project: Lundros Steel

TestCode: TSS_WW

Sample ID: MB-R4750	SampType: MBLK	TestCode: TSS_WW	Units: mg/L	Prep Date:	RunNo: 4750						
Client ID: PBW	Batch ID: R4750	TestNo: M2540 D		Analysis Date: 6/12/2012	SeqNo: 63211						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids	ND	5.00									
Sample ID: LCS-R4750	SampType: LCS	TestCode: TSS_WW	Units: mg/L	Prep Date:	RunNo: 4750						
Client ID: LCSW	Batch ID: R4750	TestNo: M2540 D		Analysis Date: 6/12/2012	SeqNo: 63212						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids	92.0	5.00	100.0	0	92.0	80	105				
Sample ID: 1206040-002BDUP	SampType: DUP	TestCode: TSS_WW	Units: mg/L	Prep Date:	RunNo: 4750						
Client ID: ZZZZZZ	Batch ID: R4750	TestNo: M2540 D		Analysis Date: 6/12/2012	SeqNo: 63214						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids	11.0	5.00				12.00	8.70	20			

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 21 of 21

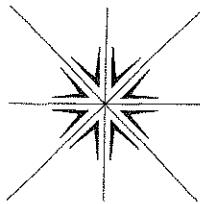
KEY TO FLAGS

Rev. May 12, 2010

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
- A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
- A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
- A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
- A4 The product appears to be aged or degraded diesel.
- B The blank exhibited a positive result greater than the reporting limit for this compound.
- CN See Case Narrative.
- D Result is based from a dilution.
- E Result exceeds the calibration range for this compound. The result should be considered as estimate.
- F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
- G Result may be biased high due to biogenic interferences. Clean up is recommended.
- H Sample was analyzed outside recommended holding time.
- HT At clients request, samples was analyzed outside of recommended holding time.
- J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
- K Diesel result is biased high due to amount of Oil contained in the sample.
- L Diesel result is biased high due to amount of Gasoline contained in the sample.
- M Oil result is biased high due to amount of Diesel contained in the sample.
- MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
- MI Result is outside control limits due to matrix interference.
- MSA Value determined by Method of Standard Addition.
- O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
- Q Detection levels elevated due to sample matrix.
- R RPD control limits were exceeded.
- RF Duplicate failed due to result being at or near the method-reporting limit.
- RP Matrix spike values exceed established QC limits; post digestion spike is in control.
- S Recovery is outside control limits.
- SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- * The result for this parameter was greater than the maximum contaminant level of the TCLP regulatory limit.

CHAIN OF CUSTODY RECORD

Page ___ of ___



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Collected By:

Signature

Printed

NOAH BREWNER

Signature

Printed

Turn Around Time

Normal 5-7 Business Days

Rush _____

Specify

Rush Analyses Must Be Scheduled With The Lab In Advance

Contact Person/Project Manager SCOTT MILLER
 Company SLR INTERNATIONAL CORP
 Address 1800 AVANKENSHIR RD
WEST LINN OR
 Phone 503-723-4423 Fax _____
 Project No. _____ Project Name CUNMOS STEEL
 Project Site Location OR X WA _____ Other _____
 Invoice To _____ P.O. No. _____

No. of Containers	Analyses							For Laboratory Use		
	METALS	NWTPH Dx	NWTPH Gx	TOC	TSS	PAHS	PCBs	PHANTES 8270	Comments	Lab I.D.
1	X	X	X	X	X	X	X	X		
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										
46										
47										
48										
49										
50										
51										
52										
53										
54										
55										
56										
57										
58										
59										
60										
61										
62										
63										
64										
65										
66										
67										
68										
69										
70										
71										
72										
73										
74										
75										
76										
77										
78										
79										
80										
81										
82										
83										
84										
85										
86										
87										
88										
89										
90										
91										
92										
93										
94										
95										
96										
97										
98										
99										
100										

Relinquished By: *Noah Brewner*
Company: *SLK*

Date *6/8/12* Time *5:05*

Received By:
Company:

Relinquished By:
Company:

Date *6/8/12* Time *5:05*

Received For Lab By:
Zaron Luer



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Scott Miller
SLR International Corp. - West Linn, OR
1800 Blankenship Road, Suite 440
West Linn, OR 97068

Report Summary

Tuesday June 26, 2012

Report Number: L579415

Samples Received: 06/08/12

Client Project:

Description: Portland SCE

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:


Jared Willis, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Scott Miller
SLR International Corp. - West Linn
1800 Blankenship Road, Suite 440
West Linn, OR 97068

June 26, 2012

Date Received : June 08, 2012
Description : Portland SCE
Sample ID : CB-3
Collected By : C Kramer
Collection Date : 06/07/12 09:50

ESC Sample # : L579415-01

Site ID :
Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
TOC (Total Organic Carbon)	12000	190	1000	ug/l		9060A	06/15/12	1
Suspended Solids	40000	180	1000	ug/l		2540D	06/15/12	1
Mercury	U	0.015	0.20	ug/l		7470A	06/12/12	1
Aluminum	3300	31.	100	ug/l		6010B	06/11/12	1
Antimony	U	6.6	20.	ug/l		6010B	06/11/12	1
Arsenic	U	6.6	20.	ug/l		6010B	06/11/12	1
Cadmium	U	1.4	5.0	ug/l		6010B	06/11/12	1
Chromium	5.9	4.0	10.	ug/l	J	6010B	06/11/12	1
Copper	12.	1.6	20.	ug/l	J	6010B	06/11/12	1
Lead	2.8	1.7	5.0	ug/l	J	6010B	06/11/12	1
Manganese	140	1.5	10.	ug/l		6010B	06/11/12	1
Nickel	U	5.2	20.	ug/l		6010B	06/11/12	1
Silver	8.3	3.8	10.	ug/l	J	6010B	06/11/12	1
Zinc	64.	10.	30.	ug/l		6010B	06/11/12	1
Gasoline Range Organics-NWTPH Surrogate Recovery	57.	33.	100	ug/l	J	NWTPHGX	06/09/12	1
a,a,a-Trifluorotoluene(FID)	103.			% Rec.		NWTPHGX	06/09/12	1
Diesel Range Organics (DRO)	190	33.	100	ug/l		NWTPHDX	06/13/12	1
Residual Range Organics (RRO)	180	82.	250	ug/l	J	NWTPHDX	06/13/12	1
Surrogate Recovery				% Rec.		NWTPHDX	06/13/12	1
o-Terphenyl	89.9							
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.011	0.0076	0.050	ug/l	J	8270C-S	06/20/12	1
Acenaphthene	0.013	0.0082	0.050	ug/l	J	8270C-S	06/20/12	1
Acenaphthylene	U	0.0068	0.050	ug/l		8270C-S	06/20/12	1
Benzo(a)anthracene	0.023	0.012	0.050	ug/l	J	8270C-S	06/20/12	1
Benzo(a)pyrene	0.026	0.012	0.050	ug/l	J	8270C-S	06/20/12	1
Benzo(b)fluoranthene	0.050	0.014	0.050	ug/l		8270C-S	06/20/12	1
Benzo(g,h,i)perylene	0.039	0.011	0.050	ug/l	J	8270C-S	06/20/12	1
Benzo(k)fluoranthene	0.015	0.014	0.050	ug/l	J	8270C-S	06/20/12	1
Chrysene	0.030	0.011	0.050	ug/l	J	8270C-S	06/20/12	1
Dibenz(a,h)anthracene	0.0058	0.0040	0.050	ug/l	J	8270C-S	06/20/12	1
Fluoranthene	0.073	0.016	0.050	ug/l		8270C-S	06/20/12	1
Fluorene	U	0.0085	0.050	ug/l		8270C-S	06/20/12	1
Indeno(1,2,3-cd)pyrene	0.027	0.015	0.050	ug/l	J	8270C-S	06/20/12	1
Naphthalene	0.027	0.020	0.25	ug/l	J	8270C-S	06/20/12	1
Phenanthrene	0.068	0.0082	0.050	ug/l		8270C-S	06/20/12	1

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

MDL = Minimum Detection Limit = LOD = TRRP SDL

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 06/26/12 10:17 Printed: 06/26/12 10:21



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Scott Miller
SLR International Corp. - West Linn
1800 Blankenship Road, Suite 440
West Linn, OR 97068

June 26, 2012

Date Received : June 08, 2012
Description : Portland SCE
Sample ID : CB-3
Collected By : C Kramer
Collection Date : 06/07/12 09:50

ESC Sample # : L579415-01

Site ID :
Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Pyrene	0.075	0.012	0.050	ug/l		8270C-S	06/20/12	1
1-Methylnaphthalene	0.014	0.0082	0.25	ug/l	J	8270C-S	06/20/12	1
2-Methylnaphthalene	0.015	0.0090	0.25	ug/l	J	8270C-S	06/20/12	1
2-Chloronaphthalene	U	0.0065	0.25	ug/l		8270C-S	06/20/12	1
Surrogate Recovery								
Nitrobenzene-d5	104.			% Rec.		8270C-S	06/20/12	1
2-Fluorobiphenyl	92.9			% Rec.		8270C-S	06/20/12	1
p-Terphenyl-d14	84.3			% Rec.		8270C-S	06/20/12	1
Polychlorinated Biphenyls								
PCB 1016	U	0.10	0.50	ug/l		8082 A	06/14/12	1
PCB 1221	U	0.073	0.50	ug/l		8082 A	06/14/12	1
PCB 1232	U	0.042	0.50	ug/l		8082 A	06/14/12	1
PCB 1242	U	0.047	0.50	ug/l		8082 A	06/14/12	1
PCB 1248	U	0.086	0.50	ug/l		8082 A	06/14/12	1
PCB 1254	U	0.047	0.50	ug/l		8082 A	06/14/12	1
PCB 1260	U	0.12	0.50	ug/l		8082 A	06/14/12	1
PCBs Surrogates								
Decachlorobiphenyl	41.9			% Rec.		8082 A	06/14/12	1
Tetrachloro-m-xylene	28.2			% Rec.		8082 A	06/14/12	1
Total Phthalates	U	2.0	6.0	ug/l		8270 D	06/12/12	1
Bis(2-ethylhexyl)phthalate	1.0	0.71	3.0	ug/l	J	8270 D	06/12/12	1
Benzylbutyl phthalate	U	0.28	3.0	ug/l		8270 D	06/12/12	1
Diethyl phthalate	U	0.28	3.0	ug/l		8270 D	06/12/12	1
Dimethyl phthalate	0.49	0.28	3.0	ug/l	J	8270 D	06/12/12	1
Di-n-butyl phthalate	0.52	0.27	3.0	ug/l	J	8270 D	06/12/12	1
Di-n-octyl phthalate	U	0.28	3.0	ug/l		8270 D	06/12/12	1
Surrogate Recovery								
2-Fluorophenol	52.3			% Rec.		8270 D	06/12/12	1
Phenol-d5	36.4			% Rec.		8270 D	06/12/12	1
Nitrobenzene-d5	67.3			% Rec.		8270 D	06/12/12	1
2-Fluorobiphenyl	92.0			% Rec.		8270 D	06/12/12	1
2,4,6-Tribromophenol	85.5			% Rec.		8270 D	06/12/12	1
p-Terphenyl-d14	86.6			% Rec.		8270 D	06/12/12	1

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

MDL = Minimum Detection Limit = LOD = TRRP SDL

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 06/26/12 10:17 Printed: 06/26/12 10:21



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Scott Miller
SLR International Corp. - West Linn
1800 Blankenship Road, Suite 440
West Linn, OR 97068

June 26, 2012

Date Received : June 08, 2012
Description : Portland SCE
Sample ID : CB-EAST
Collected By : C Kramer
Collection Date : 06/07/12 10:10

ESC Sample # : L579415-02

Site ID :
Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
TOC (Total Organic Carbon)	17000	190	1000	ug/l		9060A	06/15/12	1
Suspended Solids	110000	180	1000	ug/l		2540D	06/15/12	1
Mercury	U	0.015	0.20	ug/l		7470A	06/12/12	1
Aluminum	24000	31.	100	ug/l		6010B	06/11/12	1
Antimony	U	6.6	20.	ug/l		6010B	06/11/12	1
Arsenic	U	6.6	20.	ug/l		6010B	06/11/12	1
Cadmium	1.6	1.4	5.0	ug/l	J	6010B	06/11/12	1
Chromium	75.	4.0	10.	ug/l		6010B	06/11/12	1
Copper	73.	1.6	20.	ug/l		6010B	06/11/12	1
Lead	120	1.7	5.0	ug/l		6010B	06/11/12	1
Manganese	1200	1.5	10.	ug/l		6010B	06/11/12	1
Nickel	17.	5.2	20.	ug/l	J	6010B	06/11/12	1
Silver	U	3.8	10.	ug/l		6010B	06/11/12	1
Zinc	640	10.	30.	ug/l		6010B	06/11/12	1
Gasoline Range Organics-NWTPH Surrogate Recovery	U	33.	100	ug/l		NWTPHGX	06/09/12	1
a,a,a-Trifluorotoluene(FID)	104.			% Rec.		NWTPHGX	06/09/12	1
Diesel Range Organics (DRO)	130	33.	100	ug/l		NWTPHDX	06/18/12	1
Residual Range Organics (RRO)	150	82.	250	ug/l	J	NWTPHDX	06/18/12	1
Surrogate Recovery				% Rec.		NWTPHDX	06/18/12	1
o-Terphenyl	113.							
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.035	0.0076	0.050	ug/l	J	8270C-S	06/15/12	1
Acenaphthene	0.016	0.0082	0.050	ug/l	J	8270C-S	06/15/12	1
Acenaphthylene	0.017	0.0068	0.050	ug/l	J	8270C-S	06/15/12	1
Benzo(a)anthracene	0.031	0.012	0.050	ug/l	J	8270C-S	06/15/12	1
Benzo(a)pyrene	0.032	0.012	0.050	ug/l	J	8270C-S	06/15/12	1
Benzo(b)fluoranthene	0.057	0.014	0.050	ug/l		8270C-S	06/15/12	1
Benzo(g,h,i)perylene	0.068	0.011	0.050	ug/l		8270C-S	06/15/12	1
Benzo(k)fluoranthene	0.018	0.014	0.050	ug/l	J	8270C-S	06/15/12	1
Chrysene	0.026	0.011	0.050	ug/l	J	8270C-S	06/15/12	1
Dibenz(a,h)anthracene	U	0.0040	0.050	ug/l		8270C-S	06/15/12	1
Fluoranthene	0.055	0.016	0.050	ug/l		8270C-S	06/15/12	1
Fluorene	U	0.0085	0.050	ug/l		8270C-S	06/15/12	1
Indeno(1,2,3-cd)pyrene	0.038	0.015	0.050	ug/l	J	8270C-S	06/15/12	1
Naphthalene	0.029	0.020	0.25	ug/l	J	8270C-S	06/15/12	1
Phenanthrene	0.034	0.0082	0.050	ug/l	J	8270C-S	06/15/12	1

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

MDL = Minimum Detection Limit = LOD = TRRP SDL

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 06/26/12 10:17 Printed: 06/26/12 10:21



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Scott Miller
SLR International Corp. - West Linn
1800 Blankenship Road, Suite 440
West Linn, OR 97068

June 26, 2012

Date Received : June 08, 2012
Description : Portland SCE
Sample ID : CB-EAST
Collected By : C Kramer
Collection Date : 06/07/12 10:10

ESC Sample # : L579415-02

Site ID :
Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Pyrene	0.067	0.012	0.050	ug/l		8270C-S	06/15/12	1
1-Methylnaphthalene	0.016	0.0082	0.25	ug/l	J	8270C-S	06/15/12	1
2-Methylnaphthalene	0.018	0.0090	0.25	ug/l	J	8270C-S	06/15/12	1
2-Chloronaphthalene	U	0.0065	0.25	ug/l		8270C-S	06/15/12	1
Surrogate Recovery								
Nitrobenzene-d5	114.			% Rec.		8270C-S	06/15/12	1
2-Fluorobiphenyl	102.			% Rec.		8270C-S	06/15/12	1
p-Terphenyl-d14	88.7			% Rec.		8270C-S	06/15/12	1
Polychlorinated Biphenyls								
PCB 1016	U	0.10	0.50	ug/l		8082 A	06/14/12	1
PCB 1221	U	0.073	0.50	ug/l		8082 A	06/14/12	1
PCB 1232	U	0.042	0.50	ug/l		8082 A	06/14/12	1
PCB 1242	U	0.047	0.50	ug/l		8082 A	06/14/12	1
PCB 1248	U	0.086	0.50	ug/l		8082 A	06/14/12	1
PCB 1254	U	0.047	0.50	ug/l		8082 A	06/14/12	1
PCB 1260	U	0.12	0.50	ug/l		8082 A	06/14/12	1
PCBs Surrogates								
Decachlorobiphenyl	46.8			% Rec.		8082 A	06/14/12	1
Tetrachloro-m-xylene	35.1			% Rec.		8082 A	06/14/12	1
Total Phthalates	U	2.0	6.0	ug/l		8270 D	06/12/12	1
Bis(2-ethylhexyl)phthalate	1.8	0.71	3.0	ug/l	J	8270 D	06/12/12	1
Benzylbutyl phthalate	U	0.28	3.0	ug/l		8270 D	06/12/12	1
Diethyl phthalate	U	0.28	3.0	ug/l		8270 D	06/12/12	1
Dimethyl phthalate	0.38	0.28	3.0	ug/l	J	8270 D	06/12/12	1
Di-n-butyl phthalate	0.62	0.27	3.0	ug/l	J	8270 D	06/12/12	1
Di-n-octyl phthalate	U	0.28	3.0	ug/l		8270 D	06/12/12	1
Surrogate Recovery								
2-Fluorophenol	32.5			% Rec.		8270 D	06/12/12	1
Phenol-d5	28.6			% Rec.		8270 D	06/12/12	1
Nitrobenzene-d5	60.1			% Rec.		8270 D	06/12/12	1
2-Fluorobiphenyl	80.0			% Rec.		8270 D	06/12/12	1
2,4,6-Tribromophenol	23.2			% Rec.		8270 D	06/12/12	1
p-Terphenyl-d14	81.3			% Rec.		8270 D	06/12/12	1

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

MDL = Minimum Detection Limit = LOD = TRRP SDL

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 06/26/12 10:17 Printed: 06/26/12 10:21

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L579415-01	WG597154	SAMP	Chromium	R2205973	J
	WG597154	SAMP	Copper	R2205973	J
	WG597154	SAMP	Lead	R2205973	J
	WG597154	SAMP	Silver	R2205973	J
	WG596822	SAMP	Residual Range Organics (RRO)	R2208473	J
	WG597142	SAMP	Anthracene	R2211833	J
	WG597142	SAMP	Acenaphthene	R2211833	J
	WG597142	SAMP	Benzo(a)anthracene	R2211833	J
	WG597142	SAMP	Benzo(a)pyrene	R2211833	J
	WG597142	SAMP	Benzo(g,h,i)perylene	R2211833	J
	WG597142	SAMP	Benzo(k)fluoranthene	R2211833	J
	WG597142	SAMP	Chrysene	R2211833	J
	WG597142	SAMP	Dibenz(a,h)anthracene	R2211833	J
	WG597142	SAMP	Indeno(1,2,3-cd)pyrene	R2211833	J
	WG597142	SAMP	Naphthalene	R2211833	J
	WG597142	SAMP	1-Methylnaphthalene	R2211833	J
	WG597142	SAMP	2-Methylnaphthalene	R2211833	J
	WG597046	SAMP	Bis(2-ethylhexyl)phthalate	R2209876	J
	WG597046	SAMP	Dimethyl phthalate	R2209876	J
	WG597046	SAMP	Di-n-butyl phthalate	R2209876	J
	WG597011	SAMP	Gasoline Range Organics-NWTPH	R2206073	J
L579415-02	WG597154	SAMP	Cadmium	R2205973	J
	WG597154	SAMP	Nickel	R2205973	J
	WG597579	SAMP	Residual Range Organics (RRO)	R2211275	J
	WG597142	SAMP	Anthracene	R2211833	J
	WG597142	SAMP	Acenaphthene	R2211833	J
	WG597142	SAMP	Acenaphthylene	R2211833	J
	WG597142	SAMP	Benzo(a)anthracene	R2211833	J
	WG597142	SAMP	Benzo(a)pyrene	R2211833	J
	WG597142	SAMP	Benzo(k)fluoranthene	R2211833	J
	WG597142	SAMP	Chrysene	R2211833	J
	WG597142	SAMP	Indeno(1,2,3-cd)pyrene	R2211833	J
	WG597142	SAMP	Naphthalene	R2211833	J
	WG597142	SAMP	Phenanthrene	R2211833	J
	WG597142	SAMP	1-Methylnaphthalene	R2211833	J
	WG597142	SAMP	2-Methylnaphthalene	R2211833	J
	WG597046	SAMP	Bis(2-ethylhexyl)phthalate	R2209876	J
	WG597046	SAMP	Dimethyl phthalate	R2209876	J
	WG597046	SAMP	Di-n-butyl phthalate	R2209876	J

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
06/26/12 at 10:21:21

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L579415-01 Account: SLRWLOR Received: 06/08/12 09:00 Due Date: 06/26/12 00:00 RPT Date: 06/26/12 10:17
UNINV 649707. ln 6/26/12 - added CuICP
Sample: L579415-02 Account: SLRWLOR Received: 06/08/12 09:00 Due Date: 06/26/12 00:00 RPT Date: 06/26/12 10:17



YOUR LAB OF CHOICE

SLR International Corp. - West Linn, OR
Scott Miller
1800 Blankenship Road, Suite 440

West Linn, OR 97068

Quality Assurance Report
Level II

L579415

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

June 26, 2012

Analyte	Result	Laboratory Blank Units	% Rec.	Limit	Batch	Date Analyzed
Gasoline Range Organics-NWTPH	< .1	mg/l			WG597011	06/08/12 20:38
a,a,a-Trifluorotoluene(FID)		% Rec.	104.1	62-128	WG597011	06/08/12 20:38
Aluminum	< .1	mg/l			WG597154	06/11/12 00:26
Antimony	< .02	mg/l			WG597154	06/11/12 00:26
Arsenic	< .02	mg/l			WG597154	06/11/12 00:26
Cadmium	< .005	mg/l			WG597154	06/11/12 00:26
Chromium	< .01	mg/l			WG597154	06/11/12 00:26
Copper	< .02	mg/l			WG597154	06/11/12 00:26
Lead	< .005	mg/l			WG597154	06/11/12 00:26
Manganese	< .01	mg/l			WG597154	06/11/12 00:26
Nickel	< .02	mg/l			WG597154	06/11/12 00:26
Silver	< .01	mg/l			WG597154	06/11/12 00:26
Zinc	< .03	mg/l			WG597154	06/11/12 00:26
Mercury	< .0002	mg/l			WG597080	06/12/12 11:32
Diesel Range Organics (DRO)	< .1	ppm			WG596822	06/13/12 09:33
Residual Range Organics (RRO)	< .25	ppm			WG596822	06/13/12 09:33
o-Terphenyl		% Rec.	77.72	50-150	WG596822	06/13/12 09:33
Benzylbutyl phthalate	< .003	mg/l			WG597046	06/12/12 06:00
Bis(2-ethylhexyl)phthalate	< .003	mg/l			WG597046	06/12/12 06:00
Di-n-butyl phthalate	< .003	mg/l			WG597046	06/12/12 06:00
Di-n-octyl phthalate	< .003	mg/l			WG597046	06/12/12 06:00
Diethyl phthalate	< .003	mg/l			WG597046	06/12/12 06:00
Dimethyl phthalate	< .003	mg/l			WG597046	06/12/12 06:00
2-Fluorobiphenyl		% Rec.	90.60	29-127	WG597046	06/12/12 06:00
Nitrobenzene-d5		% Rec.	73.76	17-119	WG597046	06/12/12 06:00
p-Terphenyl-d14		% Rec.	83.95	40-174	WG597046	06/12/12 06:00
Diesel Range Organics (DRO)	< .1	ppm			WG597579	06/15/12 05:20
Residual Range Organics (RRO)	< .25	ppm			WG597579	06/15/12 05:20
o-Terphenyl		% Rec.	89.98	50-150	WG597579	06/15/12 05:20
Suspended Solids	< 1	mg/l			WG597634	06/15/12 09:32
1-Methylnaphthalene	< .00025	mg/l			WG597142	06/14/12 14:31
2-Chloronaphthalene	< .00025	mg/l			WG597142	06/14/12 14:31
2-Methylnaphthalene	< .00025	mg/l			WG597142	06/14/12 14:31
Acenaphthene	< .00005	mg/l			WG597142	06/14/12 14:31
Acenaphthylene	< .00005	mg/l			WG597142	06/14/12 14:31
Anthracene	< .00005	mg/l			WG597142	06/14/12 14:31
Benzo(a)anthracene	< .00005	mg/l			WG597142	06/14/12 14:31
Benzo(a)pyrene	< .00005	mg/l			WG597142	06/14/12 14:31
Benzo(b)fluoranthene	< .00005	mg/l			WG597142	06/14/12 14:31
Benzo(g,h,i)perylene	< .00005	mg/l			WG597142	06/14/12 14:31
Benzo(k)fluoranthene	< .00005	mg/l			WG597142	06/14/12 14:31
Chrysene	< .00005	mg/l			WG597142	06/14/12 14:31
Dibenz(a,h)anthracene	< .00005	mg/l			WG597142	06/14/12 14:31
Fluoranthene	< .00005	mg/l			WG597142	06/14/12 14:31
Fluorene	< .00005	mg/l			WG597142	06/14/12 14:31

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



L A B S C I E N C E S

YOUR LAB OF CHOICE

SLR International Corp. - West Linn, OR
Scott Miller
1800 Blankenship Road, Suite 440

Quality Assurance Report
Level II

West Linn, OR 97068

L579415

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

June 26, 2012

Analyte	Result	Laboratory Blank Units	% Rec	Limit	Batch	Date Analyzed
Indeno(1,2,3-cd)pyrene	< .00005	mg/l			WG597142	06/14/12 14:31
Naphthalene	< .00025	mg/l			WG597142	06/14/12 14:31
Phenanthrene	< .00005	mg/l			WG597142	06/14/12 14:31
Pyrene	< .00005	mg/l			WG597142	06/14/12 14:31
2-Fluorobiphenyl		% Rec.	102.5	70-130	WG597142	06/14/12 14:31
Nitrobenzene-d5		% Rec.	102.8	70-130	WG597142	06/14/12 14:31
p-Terphenyl-d14		% Rec.	114.5	70-130	WG597142	06/14/12 14:31
PCB 1016	< .0005	mg/l			WG597278	06/14/12 17:07
PCB 1221	< .0005	mg/l			WG597278	06/14/12 17:07
PCB 1232	< .0005	mg/l			WG597278	06/14/12 17:07
PCB 1242	< .0005	mg/l			WG597278	06/14/12 17:07
PCB 1248	< .0005	mg/l			WG597278	06/14/12 17:07
PCB 1254	< .0005	mg/l			WG597278	06/14/12 17:07
PCB 1260	< .0005	mg/l			WG597278	06/14/12 17:07
Decachlorobiphenyl		% Rec.	67.74	10-122.6	WG597278	06/14/12 17:07
Tetrachloro-m-xylene		% Rec.	32.01	15.3-114.2	WG597278	06/14/12 17:07
TOC (Total Organic Carbon)	< 1	mg/l			WG597319	06/15/12 15:18

Analyte	Units	Duplicate			Limit	Ref Samp	Batch
		Result	Duplicate	RPD			
Aluminum	mg/l	0	0.123	NA	20	L579373-01	WG597154
Antimony	mg/l	0	0	0	20	L579373-01	WG597154
Arsenic	mg/l	0	0	0	20	L579373-01	WG597154
Cadmium	mg/l	0	0.000490	NA	20	L579373-01	WG597154
Chromium	mg/l	0	0.000800	NA	20	L579373-01	WG597154
Copper	mg/l	0	0	0	20	L579373-01	WG597154
Lead	mg/l	0	0	0	20	L579373-01	WG597154
Manganese	mg/l	0.580	0.575	0.520	20	L579373-01	WG597154
Nickel	mg/l	0	0	0	20	L579373-01	WG597154
Silver	mg/l	0.0230	0.00480	130.*	20	L579373-01	WG597154
Zinc	mg/l	0	0.00440	NA	20	L579373-01	WG597154
Mercury	mg/l	0	0	0	20	L579309-12	WG597080
Suspended Solids	mg/l	3.00	3.00	0	5	L579450-01	WG597634
Suspended Solids	mg/l	14.0	14.0	2.82	5	L579459-02	WG597634
TOC (Total Organic Carbon)	mg/l	4.00	4.20	6.13	20	L579295-46	WG597319
TOC (Total Organic Carbon)	mg/l	6.90	6.80	1.46	20	L579375-01	WG597319

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Aluminum	mg/l	1.13	1.06	93.8	85-115	WG597154
Antimony	mg/l	1.13	1.09	96.5	85-115	WG597154
Arsenic	mg/l	1.13	1.10	97.3	85-115	WG597154
Cadmium	mg/l	1.13	1.13	100.	85-115	WG597154
Chromium	mg/l	1.13	1.13	100.	85-115	WG597154
Copper	mg/l	1.13	1.12	99.1	85-115	WG597154
Lead	mg/l	1.13	1.17	104.	85-115	WG597154
Manganese	mg/l	1.13	1.13	100.	85-115	WG597154

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

SLR International Corp. - West Linn, OR
Scott Miller
1800 Blankenship Road, Suite 440

West Linn, OR 97068

Quality Assurance Report
Level II

L579415

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

June 26, 2012

Analyte	Units	Laboratory Control Known Val	Sample Result	% Rec	Limit	Batch
Nickel	mg/l	1.13	1.02	90.3	85-115	WG597154
Silver	mg/l	1.13	1.12	99.1	85-115	WG597154
Zinc	mg/l	1.13	1.10	97.3	85-115	WG597154
Gasoline Range Organics-NWTPH a,a,a-Trifluorotoluene(FID)	mg/l	5.5	5.96	108. 111.1	70-124 62-128	WG597011 WG597011
Mercury	mg/l	.003	0.00265	88.3	85-115	WG597080
Diesel Range Organics (DRO) Residual Range Organics (RRO) o-Terphenyl	mg/l	.75	0.638	85.1	50-150	WG596822
	mg/l	.75	0.611	81.4 94.01	50-150 50-150	WG596822 WG596822
Benzylbutyl phthalate	mg/l	.01	0.00915	91.5	10-178	WG597046
Bis(2-ethylhexyl)phthalate	mg/l	.01	0.00937	93.7	42-191	WG597046
Di-n-butyl phthalate	mg/l	.01	0.0103	103.	33-175	WG597046
Di-n-octyl phthalate	mg/l	.01	0.00819	81.9	40-170	WG597046
Diethyl phthalate	mg/l	.01	0.0104	104.	10-182	WG597046
Dimethyl phthalate	mg/l	.01	0.0106	106.	10-165	WG597046
2-Fluorobiphenyl				98.56	29-127	WG597046
Nitrobenzene-d5				82.85	17-119	WG597046
p-Terphenyl-d14				89.46	40-174	WG597046
Diesel Range Organics (DRO)	mg/l	.75	0.644	85.8	50-150	WG597579
Residual Range Organics (RRO)	mg/l	.75	0.593	79.1	50-150	WG597579
o-Terphenyl				85.55	50-150	WG597579
Suspended Solids	mg/l	773	768.	99.4	85-115	WG597634
1-Methylnaphthalene	mg/l	.002	0.00190	95.0	70-130	WG597142
2-Chloronaphthalene	mg/l	.002	0.00212	106.	70-130	WG597142
2-Methylnaphthalene	mg/l	.002	0.00185	92.3	70-130	WG597142
Acenaphthene	mg/l	.002	0.00212	106.	70-130	WG597142
Acenaphthylene	mg/l	.002	0.00211	105.	70-130	WG597142
Anthracene	mg/l	.002	0.00219	109.	70-130	WG597142
Benzo(a)anthracene	mg/l	.002	0.00218	109.	70-130	WG597142
Benzo(a)pyrene	mg/l	.002	0.00224	112.	70-130	WG597142
Benzo(b)fluoranthene	mg/l	.002	0.00227	114.	70-130	WG597142
Benzo(g,h,i)perylene	mg/l	.002	0.00194	97.1	70-130	WG597142
Benzo(k)fluoranthene	mg/l	.002	0.00221	110.	70-130	WG597142
Chrysene	mg/l	.002	0.00214	107.	70-130	WG597142
Dibenz(a,h)anthracene	mg/l	.002	0.00197	98.6	70-130	WG597142
Fluoranthene	mg/l	.002	0.00212	106.	70-130	WG597142
Fluorene	mg/l	.002	0.00208	104.	70-130	WG597142
Indeno(1,2,3-cd)pyrene	mg/l	.002	0.00197	98.6	70-130	WG597142
Naphthalene	mg/l	.002	0.00208	104.	70-130	WG597142
Phenanthrene	mg/l	.002	0.00210	105.	70-130	WG597142
Pyrene	mg/l	.002	0.00224	112.	70-130	WG597142
2-Fluorobiphenyl				96.22	70-130	WG597142
Nitrobenzene-d5				97.95	70-130	WG597142
p-Terphenyl-d14				105.6	70-130	WG597142

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

SLR International Corp. - West Linn, OR
Scott Miller
1800 Blankenship Road, Suite 440

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

West Linn, OR 97068

Quality Assurance Report
Level II

June 26, 2012

L579415

Analyte	Units	Laboratory Control Sample			% Rec	Limit	Batch	
		Known Val	Result					
PCB 1016	mg/l	.0005	0.000346	69.2	32-126	WG597278		
PCB 1260	mg/l	.0005	0.000321	64.1	58-128	WG597278		
Decachlorobiphenyl				64.11	10-122.6	WG597278		
Tetrachloro-m-xylene				37.05	15.3-114.2	WG597278		
TOC (Total Organic Carbon)	mg/l	75	78.3	104.	85-115	WG597319		
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	
Gasoline Range Organics-NWTPH a,a,a-Trifluorotoluene(FID)	mg/l	5.98	5.96	109. 110.9	70-124 62-128	0.310	20	WG597011 WG597011
Diesel Range Organics (DRO)	mg/l	0.640	0.638	85.0	50-150	0.376	20	WG596822
Residual Range Organics (RRO) o-Terphenyl	mg/l	0.607	0.611	81.0 92.82	50-150	0.562	20	WG596822 WG596822
Benzylbutyl phthalate	mg/l	0.00923	0.00915	92.0	10-178	0.864	40	WG597046
Bis(2-ethylhexyl)phthalate	mg/l	0.00945	0.00937	94.0	42-191	0.830	33	WG597046
Di-n-butyl phthalate	mg/l	0.0106	0.0103	106.	33-175	2.21	39	WG597046
Di-n-octyl phthalate	mg/l	0.00868	0.00819	87.0	40-170	5.81	28	WG597046
Diethyl phthalate	mg/l	0.0109	0.0104	109.	10-182	4.67	35	WG597046
Dimethyl phthalate	mg/l	0.0111	0.0106	111.	10-165	4.09	37	WG597046
2-Fluorobiphenyl				102.4	29-127			WG597046
Nitrobenzene-d5				88.83	17-119			WG597046
p-Terphenyl-d14				87.07	40-174			WG597046
Diesel Range Organics (DRO)	mg/l	0.600	0.644	80.0	50-150	7.07	20	WG597579
Residual Range Organics (RRO) o-Terphenyl	mg/l	0.545	0.593	73.0 82.68	50-150	8.52	20	WG597579 WG597579
Suspended Solids	mg/l	760.	768.	98.0	85-115	1.05	20	WG597634
1-Methylnaphthalene	mg/l	0.00195	0.00190	97.0	70-130	2.51	25	WG597142
2-Chloronaphthalene	mg/l	0.00212	0.00212	106.	70-130	0.244	25	WG597142
2-Methylnaphthalene	mg/l	0.00189	0.00185	95.0	70-130	2.54	25	WG597142
Acenaphthene	mg/l	0.00215	0.00212	107.	70-130	1.12	25	WG597142
Acenaphthylene	mg/l	0.00214	0.00211	107.	70-130	1.78	25	WG597142
Anthracene	mg/l	0.00222	0.00219	111.	70-130	1.73	25	WG597142
Benzo(a)anthracene	mg/l	0.00221	0.00218	111.	70-130	1.39	25	WG597142
Benzo(a)pyrene	mg/l	0.00223	0.00224	111.	70-130	0.722	25	WG597142
Benzo(b)fluoranthene	mg/l	0.00206	0.00227	103.	70-130	10.0	25	WG597142
Benzo(g,h,i)perylene	mg/l	0.00184	0.00194	92.0	70-130	5.14	25	WG597142
Benzo(k)fluoranthene	mg/l	0.00237	0.00221	118.	70-130	6.84	25	WG597142
Chrysene	mg/l	0.00218	0.00214	109.	70-130	1.63	25	WG597142
Dibenz(a,h)anthracene	mg/l	0.00187	0.00197	93.0	70-130	5.32	25	WG597142
Fluoranthene	mg/l	0.00217	0.00212	108.	70-130	2.43	25	WG597142
Fluorene	mg/l	0.00211	0.00208	106.	70-130	1.35	25	WG597142
Indeno(1,2,3-cd)pyrene	mg/l	0.00185	0.00197	92.0	70-130	6.65	25	WG597142
Naphthalene	mg/l	0.00213	0.00208	106.	70-130	2.56	25	WG597142
Phenanthrene	mg/l	0.00215	0.00210	107.	70-130	2.13	25	WG597142
Pyrene	mg/l	0.00228	0.00224	114.	70-130	1.66	25	WG597142

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

SLR International Corp. - West Linn, OR
Scott Miller
1800 Blankenship Road, Suite 440
West Linn, OR 97068

Quality Assurance Report
Level II

L579415

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

June 26, 2012

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch	
		Result	Ref	%Rec					
2-Fluorobiphenyl				96.51	70-130				
Nitrobenzene-d5				101.5	70-130				
p-Terphenyl-d14				108.5	70-130				
PCB 1016	mg/l	0.000307	0.000346	61.0	32-126	11.9	22	WG597278	
PCB 1260	mg/l	0.000302	0.000321	60.0	58-128	5.95	20	WG597278	
Decachlorobiphenyl				74.19	10-122.6			WG597278	
Tetrachloro-m-xylene				38.10	15.3-114.2			WG597278	
TOC (Total Organic Carbon)	mg/l	77.2	78.3	103.	85-115	1.41	20	WG597319	
Analyte	Units	Matrix Spike			Limit	Ref Samp	Batch		
		MS Res	Ref Res	TV					
Aluminum	mg/l	1.17	0.123	1.13	92.6	75-125	L579373-01	WG597154	
Antimony	mg/l	1.10	0	1.13	97.3	75-125	L579373-01	WG597154	
Arsenic	mg/l	1.11	0	1.13	98.2	75-125	L579373-01	WG597154	
Cadmium	mg/l	1.13	0.000490	1.13	100.	75-125	L579373-01	WG597154	
Chromium	mg/l	1.12	0.000800	1.13	99.0	75-125	L579373-01	WG597154	
Copper	mg/l	1.11	0	1.13	98.2	75-125	L579373-01	WG597154	
Lead	mg/l	1.16	0	1.13	103.	75-125	L579373-01	WG597154	
Manganese	mg/l	1.70	0.575	1.13	99.6	75-125	L579373-01	WG597154	
Nickel	mg/l	1.02	0	1.13	90.3	75-125	L579373-01	WG597154	
Silver	mg/l	1.05	0.00480	1.13	92.5	75-125	L579373-01	WG597154	
Zinc	mg/l	1.12	0.00440	1.13	98.7	75-125	L579373-01	WG597154	
Gasoline Range Organics-NWTPH	mg/l	66.4	10.0	5.5	102.	58-122	L579314-01	WG597011	
a,a,a-Trifluorotoluene(FID)					109.4	62-128		WG597011	
Mercury	mg/l	0.00268	0	.003	89.3	70-130	L579309-12	WG597080	
TOC (Total Organic Carbon)	mg/l	49.2	1.40	50	95.6	80-120	L579295-47	WG597319	
Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
Aluminum	mg/l	1.18	1.17	93.5	75-125	0.851	20	L579373-01	WG597154
Antimony	mg/l	1.14	1.10	101.	75-125	3.57	20	L579373-01	WG597154
Arsenic	mg/l	1.18	1.11	104.	75-125	6.11	20	L579373-01	WG597154
Cadmium	mg/l	1.17	1.13	103.	75-125	3.48	20	L579373-01	WG597154
Chromium	mg/l	1.16	1.12	102.	75-125	3.51	20	L579373-01	WG597154
Copper	mg/l	1.11	1.11	98.2	75-125	0	20	L579373-01	WG597154
Lead	mg/l	1.22	1.16	108.	75-125	5.04	20	L579373-01	WG597154
Manganese	mg/l	1.72	1.70	101.	75-125	1.17	20	L579373-01	WG597154
Nickel	mg/l	1.06	1.02	93.8	75-125	3.85	20	L579373-01	WG597154
Silver	mg/l	0.628	1.05	55.2*	75-125	50.3*	20	L579373-01	WG597154
Zinc	mg/l	1.14	1.12	100.	75-125	1.77	20	L579373-01	WG597154
Gasoline Range Organics-NWTPH	mg/l	65.2	66.4	100.	58-122	1.78	20	L579314-01	WG597011
a,a,a-Trifluorotoluene(FID)				110.2	62-128				WG597011
Mercury	mg/l	0.00241	0.00268	80.3	70-130	10.6	20	L579309-12	WG597080

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

**YOUR LAB OF CHOICE**

SLR International Corp. - West Linn, OR
Scott Miller
1800 Blankenship Road, Suite 440
West Linn, OR 97068

**Quality Assurance Report
Level II**

L579415

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

June 26, 2012

Analyte	Units	MSD	Matrix Spike Duplicate			Limit	RPD	Limit Ref Samp	Batch	
			Ref	%Rec						
TOC (Total Organic Carbon)	mg/l	49.2	49.2	95.7		80-120	0.0406	20	L579295-47	WG597319

Batch number /Run number / Sample number cross reference

WG597154: R2205973: L579415-01 02
WG597011: R2206073: L579415-01 02
WG597080: R2206875: L579415-01 02
WG596822: R2208473: L579415-01
WG597046: R2209876: L579415-01 02
WG597579: R2211275: L579415-02
WG597634: R2211594: L579415-01 02
WG597142: R2211833: L579415-01 02
WG597278: R2212033: L579415-01 02
WG597319: R2214854: L579415-01 02

* * Calculations are performed prior to rounding of reported values.

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

SLR International Corp. - West Linn, OR
Scott Miller
1800 Blankenship Road, Suite 440
West Linn, OR 97068

Quality Assurance Report
Level II

L579415

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

June 26, 2012

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

C241

ain of Custody

Page 1 of 1

12065 Lebanon Road
Mt. Juliet, TN 37122

Phone: (800) 767-5859
Phone: (615) 758-5858
Fax: (615) 758-5859

SLR International Corp. - West
Linn, OR
1800 Blankenship Road, Suite 440
West Linn, OR 97068

Billing information:

Accounts Payable
1800 Blankenship Rd, Ste 440
West Linn, OR 97068

Report to:
Scott Miller

Email

smiller@slrcorp.com; ewheeler

Project Description: **Portland SCE**

City/State Collected

Portland, OR

Phone: (503) 723-4423
FAX:

Client Project #:

Lab Project #

SLRWLOR-WHEELERCollected by (print):
Chase

Site/Facility ID#:

P.O. #:

Collected by (signature):
*Chase***Rush?** (Lab MUST Be Notified)

Date Results Needed

Same Day	200%
Next Day	100%
Two Day	50%
Three Day	25%

Email?	No	X Yes
FAX?	No	Yes

	8082 100ml Amb-NoPres	8270PHTH 100ml Amb NoPres	Metals 500mlHDPE-HNO3 C2	NWTPHDX 100ml Amb-HCl <2	NWTPHGX 40mlAmb HCl	SVPAHSIMLVID 40mlAmb-NoPres	TOC 250mlAmb-Septa-HCl <2	TSS 1L-HDPE NoPres
No. of Cntrs								

Account: **SLRWLOR** (lab use only)
Template/Prelogn **T79169/P393506**
Cooler #: **5-22** *Mug*
Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	Remarks/Contaminant Sample # (lab only)							
CB-3		GW	-	6/7/12	950	14	X	X	X	X	X	X	X
CB-East		GW	-		1010	14	X	X	X	X	X	X	X
CB-11		GW	-			14	X	X	X	X	X	X	X

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

pH _____ Temp _____

Remarks: Metals = Al, Sb, As, Ca, Cr, Cu, Pb, Mn, Hg, Ni, Ag, Zn

Flow _____ Other _____

Relinquished by: (Signature) <i>NR</i>	Date: 6/7/12	Time: 4:00	Received by: (Signature)	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition: <i>OK, JR</i> (lab use only)
Relinquished by: (Signature) <i>EWB</i>	Date: _____	Time: _____	Received by: (Signature)	Temp: <i>3.1</i> Bottles Received: <i>28+10</i>	COC Seal Intact: <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
Relinquished by: (Signature) <i>EWB</i>	Date: 6/8/12	Time: 0910	Received for lab by: (Signature) <i>EWB</i>	Date: 6/8/12 Time: 0910	pH Checked: <input type="checkbox"/> C2 NCF: <input checked="" type="checkbox"/>



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Scott Miller
SLR International Corp. - West Linn, OR
1800 Blankenship Road, Suite 440
West Linn, OR 97068

Report Summary

Friday November 09, 2012

Report Number: L603636

Samples Received: 10/31/12

Client Project: SW SAMPLING

Description: Portland SCE

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:


Jared Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Scott Miller
SLR International Corp. - West Linn
1800 Blankenship Road, Suite 440
West Linn, OR 97068

November 09, 2012

Date Received : October 31, 2012
Description : Portland SCE
Sample ID : CB-11
Collected By : Noah Brennan
Collection Date : 10/30/12 13:30

ESC Sample # : L603636-01

Site ID :

Project # : SW SAMPLING

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
TOC (Total Organic Carbon)	2600	190	1000	ug/l		9060A	11/05/12	1
Suspended Solids	36000	180	1000	ug/l		2540D	11/07/12	1
Mercury	U	0.015	0.20	ug/l		7470A	11/01/12	1
Aluminum	1200	31.	100	ug/l		6010B	11/06/12	1
Antimony	U	6.6	20.	ug/l		6010B	11/06/12	1
Arsenic	U	6.6	20.	ug/l		6010B	11/06/12	1
Cadmium	U	1.4	5.0	ug/l		6010B	11/06/12	1
Chromium	U	4.0	10.	ug/l		6010B	11/06/12	1
Copper	9.6	1.6	20.	ug/l	J	6010B	11/06/12	1
Lead	5.2	1.7	5.0	ug/l		6010B	11/06/12	1
Manganese	54.	1.5	10.	ug/l		6010B	11/06/12	1
Nickel	U	5.2	20.	ug/l		6010B	11/06/12	1
Silver	U	3.8	10.	ug/l		6010B	11/06/12	1
Zinc	52.	10.	30.	ug/l		6010B	11/06/12	1
Gasoline Range Organics-NWTPH	48.	32.	100	ug/l	J	NWTPHGX	11/05/12	1
Surrogate Recovery				% Rec.		NWTPHGX	11/05/12	1
a,a,a-Trifluorotoluene(FID)	100.			% Rec.		NWTPHGX	11/05/12	1
Diesel Range Organics (DRO)	300	33.	100	ug/l		NWTPHDX	11/06/12	1
Residual Range Organics (RRO)	680	82.	250	ug/l	J3	NWTPHDX	11/06/12	1
Surrogate Recovery				% Rec.		NWTPHDX	11/06/12	1
o-Terphenyl	85.5			% Rec.		NWTPHDX	11/06/12	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.0076	0.050	ug/l		8270C-S	11/05/12	1
Acenaphthene	U	0.0082	0.050	ug/l		8270C-S	11/05/12	1
Acenaphthylene	U	0.0068	0.050	ug/l		8270C-S	11/05/12	1
Benzo(a)anthracene	U	0.012	0.050	ug/l		8270C-S	11/05/12	1
Benzo(a)pyrene	U	0.012	0.050	ug/l		8270C-S	11/05/12	1
Benzo(b)fluoranthene	U	0.014	0.050	ug/l		8270C-S	11/05/12	1
Benzo(g,h,i)perylene	U	0.011	0.050	ug/l		8270C-S	11/05/12	1
Benzo(k)fluoranthene	U	0.014	0.050	ug/l		8270C-S	11/05/12	1
Chrysene	U	0.011	0.050	ug/l		8270C-S	11/05/12	1
Dibenz(a,h)anthracene	U	0.0040	0.050	ug/l		8270C-S	11/05/12	1
Fluoranthene	U	0.016	0.050	ug/l		8270C-S	11/05/12	1
Fluorene	U	0.0085	0.050	ug/l		8270C-S	11/05/12	1
Indeno(1,2,3-cd)pyrene	U	0.015	0.050	ug/l		8270C-S	11/05/12	1
Naphthalene	U	0.020	0.25	ug/l		8270C-S	11/05/12	1
Phenanthrene	U	0.0082	0.050	ug/l		8270C-S	11/05/12	1

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

MDL = Minimum Detection Limit = LOD = TRRP SDL

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 11/09/12 16:10 Printed: 11/09/12 16:33



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Scott Miller
SLR International Corp. - West Linn
1800 Blankenship Road, Suite 440
West Linn, OR 97068

November 09, 2012

Date Received : October 31, 2012
Description : Portland SCE

ESC Sample # : L603636-01

Sample ID : CB-11

Site ID :

Collected By : Noah Brennan
Collection Date : 10/30/12 13:30

Project # : SW SAMPLING

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Pyrene	U	0.012	0.050	ug/l		8270C-S	11/05/12	1
1-Methylnaphthalene	U	0.0082	0.25	ug/l		8270C-S	11/05/12	1
2-Methylnaphthalene	U	0.0090	0.25	ug/l		8270C-S	11/05/12	1
2-Chloronaphthalene	U	0.0065	0.25	ug/l		8270C-S	11/05/12	1
Surrogate Recovery								
Nitrobenzene-d5	101.			% Rec.		8270C-S	11/05/12	1
2-Fluorobiphenyl	105.			% Rec.		8270C-S	11/05/12	1
p-Terphenyl-d14	96.5			% Rec.		8270C-S	11/05/12	1
Polychlorinated Biphenyls								
PCB 1016	U	0.10	0.50	ug/l		8082 A	11/05/12	1
PCB 1221	U	0.073	0.50	ug/l		8082 A	11/05/12	1
PCB 1232	U	0.042	0.50	ug/l		8082 A	11/05/12	1
PCB 1242	U	0.047	0.50	ug/l		8082 A	11/05/12	1
PCB 1248	U	0.086	0.50	ug/l		8082 A	11/05/12	1
PCB 1254	U	0.047	0.50	ug/l		8082 A	11/05/12	1
PCB 1260	U	0.12	0.50	ug/l		8082 A	11/05/12	1
PCBs Surrogates								
Decachlorobiphenyl	47.0			% Rec.		8082 A	11/05/12	1
Tetrachloro-m-xylene	70.2			% Rec.		8082 A	11/05/12	1
Total Phthalates	U	6.0	6.0	ug/l		8270 D	11/02/12	1
Bis(2-ethylhexyl)phthalate	0.93	0.71	3.0	ug/l	J	8270 D	11/02/12	1
Benzylbutyl phthalate	U	0.28	3.0	ug/l		8270 D	11/02/12	1
Diethyl phthalate	U	0.28	3.0	ug/l		8270 D	11/02/12	1
Dimethyl phthalate	2.8	0.28	3.0	ug/l	J	8270 D	11/02/12	1
Di-n-butyl phthalate	U	0.27	3.0	ug/l		8270 D	11/02/12	1
Di-n-octyl phthalate	U	0.28	3.0	ug/l		8270 D	11/02/12	1
Surrogate Recovery								
2-Fluorophenol	17.0			% Rec.		8270 D	11/02/12	1
Phenol-d5	10.0			% Rec.		8270 D	11/02/12	1
Nitrobenzene-d5	58.1			% Rec.		8270 D	11/02/12	1
2-Fluorobiphenyl	69.3			% Rec.		8270 D	11/02/12	1
2,4,6-Tribromophenol	46.9			% Rec.		8270 D	11/02/12	1
p-Terphenyl-d14	68.8			% Rec.		8270 D	11/02/12	1

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

MDL = Minimum Detection Limit = LOD = TRRP SDL

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 11/09/12 16:10 Printed: 11/09/12 16:33



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Scott Miller
SLR International Corp. - West Linn
1800 Blankenship Road, Suite 440
West Linn, OR 97068

November 09, 2012

Date Received : October 31, 2012
Description : Portland SCE
Sample ID : CB-EAST
Collected By : Noah Brennan
Collection Date : 10/30/12 13:50

ESC Sample # : L603636-02

Site ID :

Project # : SW SAMPLING

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
TOC (Total Organic Carbon)	4600	190	1000	ug/l		9060A	11/05/12	1
Suspended Solids	260000	180	1000	ug/l		2540D	11/07/12	1
Mercury	0.020	0.015	0.20	ug/l	J	7470A	11/01/12	1
Aluminum	9600	31.	100	ug/l		6010B	11/06/12	1
Antimony	U	6.6	20.	ug/l		6010B	11/06/12	1
Arsenic	U	6.6	20.	ug/l		6010B	11/06/12	1
Cadmium	U	1.4	5.0	ug/l		6010B	11/06/12	1
Chromium	35.	4.0	10.	ug/l		6010B	11/06/12	1
Copper	59.	1.6	20.	ug/l		6010B	11/06/12	1
Lead	64.	1.7	5.0	ug/l		6010B	11/06/12	1
Manganese	540	1.5	10.	ug/l		6010B	11/06/12	1
Nickel	8.7	5.2	20.	ug/l	J	6010B	11/06/12	1
Silver	U	3.8	10.	ug/l		6010B	11/06/12	1
Zinc	400	10.	30.	ug/l		6010B	11/06/12	1
Gasoline Range Organics-NWTPH	61.	32.	100	ug/l	J	NWTPHGX	11/05/12	1
Surrogate Recovery				% Rec.		NWTPHGX	11/05/12	1
a,a,a-Trifluorotoluene(FID)	101.			% Rec.		NWTPHGX	11/05/12	1
Diesel Range Organics (DRO)	370	33.	100	ug/l		NWTPHDX	11/06/12	1
Residual Range Organics (RRO)	740	82.	250	ug/l	J3	NWTPHDX	11/06/12	1
Surrogate Recovery				% Rec.		NWTPHDX	11/06/12	1
o-Terphenyl	87.6			% Rec.		NWTPHDX	11/06/12	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.076	0.50	ug/l	O	8270C-S	11/06/12	10
Acenaphthene	U	0.082	0.50	ug/l	O	8270C-S	11/06/12	10
Acenaphthylene	U	0.068	0.50	ug/l	O	8270C-S	11/06/12	10
Benz(a)anthracene	U	0.12	0.50	ug/l	O	8270C-S	11/06/12	10
Benzo(a)pyrene	U	0.12	0.50	ug/l	O	8270C-S	11/06/12	10
Benzo(b)fluoranthene	U	0.14	0.50	ug/l	O	8270C-S	11/06/12	10
Benzo(g,h,i)perylene	U	0.11	0.50	ug/l	O	8270C-S	11/06/12	10
Benzo(k)fluoranthene	U	0.14	0.50	ug/l	O	8270C-S	11/06/12	10
Chrysene	U	0.11	0.50	ug/l	O	8270C-S	11/06/12	10
Dibenz(a,h)anthracene	U	0.040	0.50	ug/l	O	8270C-S	11/06/12	10
Fluoranthene	U	0.16	0.50	ug/l	O	8270C-S	11/06/12	10
Fluorene	U	0.085	0.50	ug/l	O	8270C-S	11/06/12	10
Indeno(1,2,3-cd)pyrene	U	0.15	0.50	ug/l	O	8270C-S	11/06/12	10
Naphthalene	U	0.20	2.5	ug/l	O	8270C-S	11/06/12	10
Phenanthrene	U	0.082	0.50	ug/l	O	8270C-S	11/06/12	10

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

MDL = Minimum Detection Limit = LOD = TRRP SDL

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 11/09/12 16:10 Printed: 11/09/12 16:33
L603636-02 (SVPAHSIMLVID) - Dilution due to matrix



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Scott Miller
SLR International Corp. - West Linn
1800 Blankenship Road, Suite 440
West Linn, OR 97068

November 09, 2012

Date Received : October 31, 2012
Description : Portland SCE

ESC Sample # : L603636-02

Sample ID : CB-EAST

Site ID :

Collected By : Noah Brennan
Collection Date : 10/30/12 13:50

Project # : SW SAMPLING

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Pyrene	U	0.12	0.50	ug/l	O	8270C-S	11/06/12	10
1-Methylnaphthalene	U	0.082	2.5	ug/l	O	8270C-S	11/06/12	10
2-Methylnaphthalene	U	0.090	2.5	ug/l	O	8270C-S	11/06/12	10
2-Chloronaphthalene	U	0.065	2.5	ug/l	O	8270C-S	11/06/12	10
Surrogate Recovery								
Nitrobenzene-d5	83.5			% Rec.		8270C-S	11/06/12	10
2-Fluorobiphenyl	86.7			% Rec.		8270C-S	11/06/12	10
p-Terphenyl-d14	72.5			% Rec.		8270C-S	11/06/12	10
Polychlorinated Biphenyls								
PCB 1016	U	0.10	0.50	ug/l		8082 A	11/05/12	1
PCB 1221	U	0.073	0.50	ug/l		8082 A	11/05/12	1
PCB 1232	U	0.042	0.50	ug/l		8082 A	11/05/12	1
PCB 1242	U	0.047	0.50	ug/l		8082 A	11/05/12	1
PCB 1248	U	0.086	0.50	ug/l		8082 A	11/05/12	1
PCB 1254	U	0.047	0.50	ug/l		8082 A	11/05/12	1
PCB 1260	U	0.12	0.50	ug/l		8082 A	11/05/12	1
PCBs Surrogates								
Decachlorobiphenyl	46.7			% Rec.		8082 A	11/05/12	1
Tetrachloro-m-xylene	74.3			% Rec.		8082 A	11/05/12	1
Total Phthalates	U	6.0	6.0	ug/l		8270 D	11/02/12	1
Bis(2-ethylhexyl)phthalate	3.3	0.71	3.0	ug/l		8270 D	11/02/12	1
Benzylbutyl phthalate	U	0.28	3.0	ug/l		8270 D	11/02/12	1
Diethyl phthalate	U	0.28	3.0	ug/l		8270 D	11/02/12	1
Dimethyl phthalate	1.9	0.28	3.0	ug/l	J	8270 D	11/02/12	1
Di-n-butyl phthalate	0.52	0.27	3.0	ug/l	J	8270 D	11/02/12	1
Di-n-octyl phthalate	U	0.28	3.0	ug/l		8270 D	11/02/12	1
Surrogate Recovery								
2-Fluorophenol	18.2			% Rec.		8270 D	11/02/12	1
Phenol-d5	12.5			% Rec.		8270 D	11/02/12	1
Nitrobenzene-d5	63.6			% Rec.		8270 D	11/02/12	1
2-Fluorobiphenyl	79.6			% Rec.		8270 D	11/02/12	1
2,4,6-Tribromophenol	56.8			% Rec.		8270 D	11/02/12	1
p-Terphenyl-d14	86.3			% Rec.		8270 D	11/02/12	1

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

MDL = Minimum Detection Limit = LOD = TRRP SDL

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 11/09/12 16:10 Printed: 11/09/12 16:33
L603636-02 (SVPAHSIMLVID) - Dilution due to matrix



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Scott Miller
SLR International Corp. - West Linn
1800 Blankenship Road, Suite 440
West Linn, OR 97068

November 09, 2012

Date Received : October 31, 2012
Description : Portland SCE

ESC Sample # : L603636-03

Sample ID : CB-3

Site ID :

Collected By : Noah Brennan
Collection Date : 10/30/12 14:50

Project # : SW SAMPLING

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
TOC (Total Organic Carbon)	3300	190	1000	ug/l		9060A	11/08/12	1
Suspended Solids	38000	180	1000	ug/l		2540D	11/07/12	1
Mercury	0.020	0.015	0.20	ug/l	J	7470A	11/01/12	1
Aluminum	3000	31.	100	ug/l		6010B	11/06/12	1
Antimony	U	6.6	20.	ug/l		6010B	11/06/12	1
Arsenic	U	6.6	20.	ug/l		6010B	11/06/12	1
Cadmium	U	1.4	5.0	ug/l		6010B	11/06/12	1
Chromium	6.5	4.0	10.	ug/l	J	6010B	11/06/12	1
Copper	15.	1.6	20.	ug/l	J	6010B	11/06/12	1
Lead	4.8	1.7	5.0	ug/l	J	6010B	11/06/12	1
Manganese	130	1.5	10.	ug/l		6010B	11/06/12	1
Nickel	U	5.2	20.	ug/l		6010B	11/06/12	1
Silver	U	3.8	10.	ug/l		6010B	11/06/12	1
Zinc	86.	10.	30.	ug/l		6010B	11/06/12	1
Gasoline Range Organics-NWTPH	52.	32.	100	ug/l	J	NWTPHGX	11/05/12	1
Surrogate Recovery				% Rec.		NWTPHGX	11/05/12	1
a,a,a-Trifluorotoluene(FID)	99.5			% Rec.		NWTPHGX	11/05/12	1
Diesel Range Organics (DRO)	230	33.	100	ug/l		NWTPHDX	11/06/12	1
Residual Range Organics (RRO)	620	82.	250	ug/l	J3	NWTPHDX	11/06/12	1
Surrogate Recovery				% Rec.		NWTPHDX	11/06/12	1
o-Terphenyl	94.5			% Rec.		NWTPHDX	11/06/12	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.076	0.50	ug/l	O	8270C-S	11/06/12	10
Acenaphthene	U	0.082	0.50	ug/l	O	8270C-S	11/06/12	10
Acenaphthylene	U	0.068	0.50	ug/l	O	8270C-S	11/06/12	10
Benz(a)anthracene	U	0.12	0.50	ug/l	O	8270C-S	11/06/12	10
Benzo(a)pyrene	U	0.12	0.50	ug/l	O	8270C-S	11/06/12	10
Benzo(b)fluoranthene	U	0.14	0.50	ug/l	O	8270C-S	11/06/12	10
Benzo(g,h,i)perylene	U	0.11	0.50	ug/l	O	8270C-S	11/06/12	10
Benzo(k)fluoranthene	U	0.14	0.50	ug/l	O	8270C-S	11/06/12	10
Chrysene	U	0.11	0.50	ug/l	O	8270C-S	11/06/12	10
Dibenz(a,h)anthracene	U	0.040	0.50	ug/l	O	8270C-S	11/06/12	10
Fluoranthene	U	0.16	0.50	ug/l	O	8270C-S	11/06/12	10
Fluorene	U	0.085	0.50	ug/l	O	8270C-S	11/06/12	10
Indeno(1,2,3-cd)pyrene	U	0.15	0.50	ug/l	O	8270C-S	11/06/12	10
Naphthalene	U	0.20	2.5	ug/l	O	8270C-S	11/06/12	10
Phenanthrene	U	0.082	0.50	ug/l	O	8270C-S	11/06/12	10

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

MDL = Minimum Detection Limit = LOD = TRRP SDL

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 11/09/12 16:10 Printed: 11/09/12 16:33
L603636-03 (SVPAHSIMLVID) - Dilution due to matrix



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Scott Miller
SLR International Corp. - West Linn
1800 Blankenship Road, Suite 440
West Linn, OR 97068

November 09, 2012

Date Received : October 31, 2012
Description : Portland SCE

ESC Sample # : L603636-03

Sample ID : CB-3

Site ID :

Collected By : Noah Brennan
Collection Date : 10/30/12 14:50

Project # : SW SAMPLING

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Pyrene	U	0.12	0.50	ug/l	O	8270C-S	11/06/12	10
1-Methylnaphthalene	U	0.082	2.5	ug/l	O	8270C-S	11/06/12	10
2-Methylnaphthalene	U	0.090	2.5	ug/l	O	8270C-S	11/06/12	10
2-Chloronaphthalene	U	0.065	2.5	ug/l	O	8270C-S	11/06/12	10
Surrogate Recovery								
Nitrobenzene-d5	87.7			% Rec.		8270C-S	11/06/12	10
2-Fluorobiphenyl	89.1			% Rec.		8270C-S	11/06/12	10
p-Terphenyl-d14	70.6			% Rec.		8270C-S	11/06/12	10
Polychlorinated Biphenyls								
PCB 1016	U	0.10	0.50	ug/l		8082 A	11/05/12	1
PCB 1221	U	0.073	0.50	ug/l		8082 A	11/05/12	1
PCB 1232	U	0.042	0.50	ug/l		8082 A	11/05/12	1
PCB 1242	U	0.047	0.50	ug/l		8082 A	11/05/12	1
PCB 1248	U	0.086	0.50	ug/l		8082 A	11/05/12	1
PCB 1254	U	0.047	0.50	ug/l		8082 A	11/05/12	1
PCB 1260	U	0.12	0.50	ug/l		8082 A	11/05/12	1
PCBs Surrogates								
Decachlorobiphenyl	33.2			% Rec.		8082 A	11/05/12	1
Tetrachloro-m-xylene	75.7			% Rec.		8082 A	11/05/12	1
Total Phthalates	U	6.0	6.0	ug/l		8270 D	11/05/12	1
Bis(2-ethylhexyl)phthalate	1.4	0.71	3.0	ug/l	J	8270 D	11/05/12	1
Benzylbutyl phthalate	U	0.28	3.0	ug/l		8270 D	11/05/12	1
Diethyl phthalate	U	0.28	3.0	ug/l		8270 D	11/05/12	1
Dimethyl phthalate	1.0	0.28	3.0	ug/l	J	8270 D	11/05/12	1
Di-n-butyl phthalate	0.43	0.27	3.0	ug/l	J	8270 D	11/05/12	1
Di-n-octyl phthalate	U	0.28	3.0	ug/l		8270 D	11/05/12	1
Surrogate Recovery								
2-Fluorophenol	36.7			% Rec.		8270 D	11/05/12	1
Phenol-d5	26.5			% Rec.		8270 D	11/05/12	1
Nitrobenzene-d5	63.8			% Rec.		8270 D	11/05/12	1
2-Fluorobiphenyl	72.0			% Rec.		8270 D	11/05/12	1
2,4,6-Tribromophenol	70.0			% Rec.		8270 D	11/05/12	1
p-Terphenyl-d14	74.4			% Rec.		8270 D	11/05/12	1

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

MDL = Minimum Detection Limit = LOD = TRRP SDL

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 11/09/12 16:10 Printed: 11/09/12 16:33
L603636-03 (SVPAHSIMLVID) - Dilution due to matrix

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L603636-01	WG621383	SAMP	Copper	R2428117	J
	WG620788	SAMP	Residual Range Organics (RRO)	R2426417	J3
	WG620786	SAMP	Bis(2-ethylhexyl)phthalate	R2423757	J
	WG620786	SAMP	Dimethyl phthalate	R2423757	J
	WG620933	SAMP	Gasoline Range Organics-NWTPH	R2425558	J
L603636-02	WG621383	SAMP	Nickel	R2428117	J
	WG620865	SAMP	Mercury	R2421398	J
	WG620788	SAMP	Residual Range Organics (RRO)	R2426417	J3
	WG620786	SAMP	Dimethyl phthalate	R2423757	J
	WG620786	SAMP	Di-n-butyl phthalate	R2423757	J
	WG620933	SAMP	Gasoline Range Organics-NWTPH	R2425558	J
	WG621223	SAMP	Anthracene	R2430862	O
	WG621223	SAMP	Acenaphthene	R2430862	O
	WG621223	SAMP	Acenaphthylene	R2430862	O
	WG621223	SAMP	Benzo(a)anthracene	R2430862	O
	WG621223	SAMP	Benzo(a)pyrene	R2430862	O
	WG621223	SAMP	Benzo(b)fluoranthene	R2430862	O
	WG621223	SAMP	Benzo(g,h,i)perylene	R2430862	O
	WG621223	SAMP	Benzo(k)fluoranthene	R2430862	O
	WG621223	SAMP	Chrysene	R2430862	O
	WG621223	SAMP	Dibenz(a,h)anthracene	R2430862	O
	WG621223	SAMP	Fluoranthene	R2430862	O
	WG621223	SAMP	Fluorene	R2430862	O
	WG621223	SAMP	Indeno(1,2,3-cd)pyrene	R2430862	O
	WG621223	SAMP	Naphthalene	R2430862	O
	WG621223	SAMP	Phenanthrene	R2430862	O
	WG621223	SAMP	Pyrene	R2430862	O
	WG621223	SAMP	1-Methylnaphthalene	R2430862	O
	WG621223	SAMP	2-Methylnaphthalene	R2430862	O
	WG621223	SAMP	2-Chloronaphthalene	R2430862	O
L603636-03	WG621383	SAMP	Chromium	R2428117	J
	WG621383	SAMP	Copper	R2428117	J
	WG621383	SAMP	Lead	R2428117	J
	WG620865	SAMP	Mercury	R2421398	J
	WG620788	SAMP	Residual Range Organics (RRO)	R2426417	J3
	WG621036	SAMP	Bis(2-ethylhexyl)phthalate	R2426237	J
	WG621036	SAMP	Dimethyl phthalate	R2426237	J
	WG621036	SAMP	Di-n-butyl phthalate	R2426237	J
	WG620933	SAMP	Gasoline Range Organics-NWTPH	R2425558	J
	WG621223	SAMP	Anthracene	R2430862	O
	WG621223	SAMP	Acenaphthene	R2430862	O
	WG621223	SAMP	Acenaphthylene	R2430862	O
	WG621223	SAMP	Benzo(a)anthracene	R2430862	O
	WG621223	SAMP	Benzo(a)pyrene	R2430862	O
	WG621223	SAMP	Benzo(b)fluoranthene	R2430862	O
	WG621223	SAMP	Benzo(g,h,i)perylene	R2430862	O
	WG621223	SAMP	Benzo(k)fluoranthene	R2430862	O
	WG621223	SAMP	Chrysene	R2430862	O
	WG621223	SAMP	Dibenz(a,h)anthracene	R2430862	O
	WG621223	SAMP	Fluoranthene	R2430862	O
	WG621223	SAMP	Fluorene	R2430862	O
	WG621223	SAMP	Indeno(1,2,3-cd)pyrene	R2430862	O
	WG621223	SAMP	Naphthalene	R2430862	O
	WG621223	SAMP	Phenanthrene	R2430862	O
	WG621223	SAMP	Pyrene	R2430862	O
	WG621223	SAMP	1-Methylnaphthalene	R2430862	O
	WG621223	SAMP	2-Methylnaphthalene	R2430862	O
	WG621223	SAMP	2-Chloronaphthalene	R2430862	O

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J3	The associated batch QC was outside the established quality control range for precision.
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



YOUR LAB OF CHOICE

SLR International Corp. - West Linn, OR
Scott Miller
1800 Blankenship Road, Suite 440
West Linn, OR 97068

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report
Level II

L603636

November 09, 2012

Analyte	Result	Laboratory Blank Units	% Rec	Limit	Batch	Date Analyzed
Mercury	< .0002	mg/l			WG620865	11/01/12 18:30
Benzylbutyl phthalate	< .003	mg/l			WG620786	11/02/12 11:13
Bis(2-ethylhexyl)phthalate	< .003	mg/l			WG620786	11/02/12 11:13
Di-n-butyl phthalate	< .003	mg/l			WG620786	11/02/12 11:13
Di-n-octyl phthalate	< .003	mg/l			WG620786	11/02/12 11:13
Diethyl phthalate	< .003	mg/l			WG620786	11/02/12 11:13
Dimethyl phthalate	< .003	mg/l			WG620786	11/02/12 11:13
2,4,6-Tribromophenol		% Rec.	58.50	16-147	WG620786	11/02/12 11:13
2-Fluorobiphenyl		% Rec.	79.30	29-127	WG620786	11/02/12 11:13
2-Fluorophenol		% Rec.	45.90	10-75	WG620786	11/02/12 11:13
Nitrobenzene-d5		% Rec.	68.10	17-119	WG620786	11/02/12 11:13
Phenol-d5		% Rec.	35.30	10-63	WG620786	11/02/12 11:13
p-Terphenyl-d14		% Rec.	77.90	40-174	WG620786	11/02/12 11:13
Gasoline Range Organics-NWTPH	< .1	mg/l			WG620933	11/05/12 02:56
a,a,a-Trifluorotoluene(FID)		% Rec.	101.1	62-128	WG620933	11/05/12 02:56
1-Methylnaphthalene	< .00025	mg/l			WG621223	11/05/12 11:42
2-Chloronaphthalene	< .00005	mg/l			WG621223	11/05/12 11:42
2-Methylnaphthalene	< .00025	mg/l			WG621223	11/05/12 11:42
Acenaphthene	< .00005	mg/l			WG621223	11/05/12 11:42
Acenaphthylene	< .00005	mg/l			WG621223	11/05/12 11:42
Anthracene	< .00005	mg/l			WG621223	11/05/12 11:42
Benzo(a)anthracene	< .00005	mg/l			WG621223	11/05/12 11:42
Benzo(a)pyrene	< .00005	mg/l			WG621223	11/05/12 11:42
Benzo(b)fluoranthene	< .00005	mg/l			WG621223	11/05/12 11:42
Benzo(g,h,i)perylene	< .00005	mg/l			WG621223	11/05/12 11:42
Benzo(k)fluoranthene	< .00005	mg/l			WG621223	11/05/12 11:42
Chrysene	< .00005	mg/l			WG621223	11/05/12 11:42
Dibenz(a,h)anthracene	< .00005	mg/l			WG621223	11/05/12 11:42
Fluoranthene	< .00005	mg/l			WG621223	11/05/12 11:42
Fluorene	< .00005	mg/l			WG621223	11/05/12 11:42
Indeno(1,2,3-cd)pyrene	< .00005	mg/l			WG621223	11/05/12 11:42
Naphthalene	< .00025	mg/l			WG621223	11/05/12 11:42
Phenanthrene	< .00005	mg/l			WG621223	11/05/12 11:42
Pyrene	< .00005	mg/l			WG621223	11/05/12 11:42
2-Fluorobiphenyl		% Rec.	111.0	70-130	WG621223	11/05/12 11:42
Nitrobenzene-d5		% Rec.	104.0	70-130	WG621223	11/05/12 11:42
p-Terphenyl-d14		% Rec.	109.0	70-130	WG621223	11/05/12 11:42
Benzylbutyl phthalate	< .003	mg/l			WG621036	11/05/12 02:53
Bis(2-ethylhexyl)phthalate	< .003	mg/l			WG621036	11/05/12 02:53
Di-n-butyl phthalate	< .003	mg/l			WG621036	11/05/12 02:53
Di-n-octyl phthalate	< .003	mg/l			WG621036	11/05/12 02:53
Diethyl phthalate	< .003	mg/l			WG621036	11/05/12 02:53
Dimethyl phthalate	< .003	mg/l			WG621036	11/05/12 02:53
2,4,6-Tribromophenol		% Rec.	61.10	16-147	WG621036	11/05/12 02:53
2-Fluorobiphenyl		% Rec.	70.50	29-127	WG621036	11/05/12 02:53
2-Fluorophenol		% Rec.	39.70	10-75	WG621036	11/05/12 02:53
Nitrobenzene-d5		% Rec.	61.90	17-119	WG621036	11/05/12 02:53
Phenol-d5		% Rec.	28.30	10-63	WG621036	11/05/12 02:53
p-Terphenyl-d14		% Rec.	72.60	40-174	WG621036	11/05/12 02:53

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

SLR International Corp. - West Linn, OR
Scott Miller
1800 Blankenship Road, Suite 440
West Linn, OR 97068

Quality Assurance Report
Level II

L603636

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

November 09, 2012

Analyte	Result	Laboratory Blank Units	% Rec	Limit	Batch	Date Analyzed
Diesel Range Organics (DRO)	< .1	mg/l			WG620788	11/06/12 00:07
Residual Range Organics (RRO)	< .25	mg/l			WG620788	11/06/12 00:07
o-Terphenyl		% Rec.	80.69	50-150	WG620788	11/06/12 00:07
PCB 1016	< .0005	mg/l			WG621208	11/05/12 16:13
PCB 1221	< .0005	mg/l			WG621208	11/05/12 16:13
PCB 1232	< .0005	mg/l			WG621208	11/05/12 16:13
PCB 1242	< .0005	mg/l			WG621208	11/05/12 16:13
PCB 1248	< .0005	mg/l			WG621208	11/05/12 16:13
PCB 1254	< .0005	mg/l			WG621208	11/05/12 16:13
PCB 1260	< .0005	mg/l			WG621208	11/05/12 16:13
Decachlorobiphenyl		% Rec.	61.90	10-141	WG621208	11/05/12 16:13
Tetrachloro-m-xylene		% Rec.	72.10	10-125	WG621208	11/05/12 16:13
Aluminum	< .1	mg/l			WG621383	11/06/12 00:55
Antimony	< .02	mg/l			WG621383	11/06/12 00:55
Arsenic	< .02	mg/l			WG621383	11/06/12 00:55
Cadmium	< .005	mg/l			WG621383	11/06/12 00:55
Chromium	< .01	mg/l			WG621383	11/06/12 00:55
Copper	< .02	mg/l			WG621383	11/06/12 00:55
Manganese	< .01	mg/l			WG621383	11/06/12 00:55
Nickel	< .02	mg/l			WG621383	11/06/12 00:55
Silver	< .01	mg/l			WG621383	11/06/12 00:55
Zinc	< .03	mg/l			WG621383	11/06/12 00:55
Lead	< .005	mg/l			WG621383	11/06/12 08:39
PCB 1016	< .0005	mg/l			WG621208	11/06/12 12:02
PCB 1221	< .0005	mg/l			WG621208	11/06/12 12:02
PCB 1232	< .0005	mg/l			WG621208	11/06/12 12:02
PCB 1242	< .0005	mg/l			WG621208	11/06/12 12:02
PCB 1248	< .0005	mg/l			WG621208	11/06/12 12:02
PCB 1254	< .0005	mg/l			WG621208	11/06/12 12:02
PCB 1260	< .0005	mg/l			WG621208	11/06/12 12:02
TOC (Total Organic Carbon)	< 1	mg/l			WG621119	11/05/12 00:00
Suspended Solids	< 1	mg/l			WG621123	11/07/12 09:39
TOC (Total Organic Carbon)	< 1	mg/l			WG621486	11/08/12 14:55

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Mercury	mg/l	0	0	0	20	L603652-01	WG620865
Aluminum	mg/l	0.650	0.577	11.9	20	L603556-14	WG621383
Antimony	mg/l	0	0	0	20	L603556-14	WG621383
Arsenic	mg/l	0	0.00440	NA	20	L603556-14	WG621383
Cadmium	mg/l	0	0	0	20	L603556-14	WG621383
Chromium	mg/l	0	0	0	20	L603556-14	WG621383
Copper	mg/l	0	0.00270	NA	20	L603556-14	WG621383
Manganese	mg/l	0.440	0.433	1.60	20	L603556-14	WG621383

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

SLR International Corp. - West Linn, OR
Scott Miller
1800 Blankenship Road, Suite 440
West Linn, OR 97068

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report
Level II

L603636

November 09, 2012

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Nickel	mg/l	0	0	0	20	L603556-14	WG621383
Silver	mg/l	0	0	0	20	L603556-14	WG621383
Zinc	mg/l	0.0610	0.0600	1.65	20	L603556-14	WG621383
Lead	mg/l	0.00700	0	NA	20	L603556-14	WG621383
TOC (Total Organic Carbon)	mg/l	0	0	0	20	L603344-01	WG621119
TOC (Total Organic Carbon)	mg/l	4.70	4.60	3.00	20	L603636-02	WG621119
Suspended Solids	mg/l	10.0	9.33	6.90*	5	L603545-01	WG621123
Suspended Solids	mg/l	3.10	2.89	7.41*	5	L603620-01	WG621123
TOC (Total Organic Carbon)	mg/l	2.70	2.60	3.40	20	L603652-02	WG621486
Analyte	Units	Laboratory Known Val	Control Sample Result	% Rec	Limit	Batch	
Mercury	mg/l	.003	0.00297	99.0	85-115	WG620865	
Benzylbutyl phthalate	mg/l	.01	0.00757	75.7	10-178	WG620786	
Bis(2-ethylhexyl)phthalate	mg/l	.01	0.00894	89.4	42-191	WG620786	
Di-n-butyl phthalate	mg/l	.01	0.00855	85.5	33-175	WG620786	
Di-n-octyl phthalate	mg/l	.01	0.00824	82.4	40-170	WG620786	
Diethyl phthalate	mg/l	.01	0.00846	84.6	10-182	WG620786	
Dimethyl phthalate	mg/l	.01	0.00834	83.4	10-165	WG620786	
2,4,6-Tribromophenol			72.60	16-147	WG620786		
2-Fluorobiphenyl			83.70	29-127	WG620786		
2-Fluorophenol			45.70	10-75	WG620786		
Nitrobenzene-d5			73.00	17-119	WG620786		
Phenol-d5			35.80	10-63	WG620786		
p-Terphenyl-d14			83.70	40-174	WG620786		
Gasoline Range Organics-NWTPH	mg/l	5.5	5.36	97.4	70-124	WG620933	
a,a,a-Trifluorotoluene(FID)			103.8	62-128	WG620933		
1-Methylnaphthalene	mg/l	.002	0.00188	94.1	70-130	WG621223	
2-Chloronaphthalene	mg/l	.002	0.00187	93.3	70-130	WG621223	
2-Methylnaphthalene	mg/l	.002	0.00182	90.9	70-130	WG621223	
Acenaphthene	mg/l	.002	0.00185	92.6	70-130	WG621223	
Acenaphthylene	mg/l	.002	0.00193	96.5	70-130	WG621223	
Anthracene	mg/l	.002	0.00200	100.	70-130	WG621223	
Benzo(a)anthracene	mg/l	.002	0.00183	91.5	70-130	WG621223	
Benzo(a)pyrene	mg/l	.002	0.00180	90.0	70-130	WG621223	
Benzo(b)fluoranthene	mg/l	.002	0.00163	81.7	70-130	WG621223	
Benzo(g,h,i)perylene	mg/l	.002	0.00163	81.6	70-130	WG621223	
Benzo(k)fluoranthene	mg/l	.002	0.00190	94.9	70-130	WG621223	
Chrysene	mg/l	.002	0.00187	93.3	70-130	WG621223	
Dibenz(a,h)anthracene	mg/l	.002	0.00168	84.2	70-130	WG621223	
Fluoranthene	mg/l	.002	0.00204	102.	70-130	WG621223	
Fluorene	mg/l	.002	0.00184	91.8	70-130	WG621223	
Indeno(1,2,3-cd)pyrene	mg/l	.002	0.00171	85.6	70-130	WG621223	
Naphthalene	mg/l	.002	0.00184	92.1	70-130	WG621223	
Phenanthrene	mg/l	.002	0.00189	94.6	70-130	WG621223	
Pyrene	mg/l	.002	0.00180	89.8	70-130	WG621223	

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

SLR International Corp. - West Linn, OR
Scott Miller
1800 Blankenship Road, Suite 440
West Linn, OR 97068

Quality Assurance Report
Level II

L603636

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

November 09, 2012

Analyte	Units	Laboratory Control Known Val	Sample Result	% Rec	Limit	Batch
2-Fluorobiphenyl				104.0	70-130	
Nitrobenzene-d5				101.0	70-130	
p-Terphenyl-d14				95.40	70-130	
Benzylbutyl phthalate	mg/l	.01	0.00714	71.4	10-178	WG621036
Bis(2-ethylhexyl)phthalate	mg/l	.01	0.00856	85.6	42-191	WG621036
Di-n-butyl phthalate	mg/l	.01	0.00751	75.1	33-175	WG621036
Di-n-octyl phthalate	mg/l	.01	0.00739	73.9	40-170	WG621036
Diethyl phthalate	mg/l	.01	0.00757	75.7	10-182	WG621036
Dimethyl phthalate	mg/l	.01	0.00728	72.8	10-165	WG621036
2,4,6-Tribromophenol				59.80	16-147	WG621036
2-Fluorobiphenyl				67.00	29-127	WG621036
2-Fluorophenol				35.40	10-75	WG621036
Nitrobenzene-d5				60.70	17-119	WG621036
Phenol-d5				24.90	10-63	WG621036
p-Terphenyl-d14				70.00	40-174	WG621036
Diesel Range Organics (DRO)	mg/l	.75	0.774	103.	50-150	WG620788
Residual Range Organics (RRO)	mg/l	.75	0.638	85.1	50-150	WG620788
o-Terphenyl				86.01	50-150	WG620788
PCB 1016	mg/l	.0005	0.000334	66.7	32-126	WG621208
PCB 1260	mg/l	.0005	0.000291	58.3	58-128	WG621208
Decachlorobiphenyl				67.10	10-141	WG621208
Tetrachloro-m-xylene				78.10	10-125	WG621208
Aluminum	mg/l	1.13	1.14	101.	85-115	WG621383
Antimony	mg/l	1.13	1.08	95.6	85-115	WG621383
Arsenic	mg/l	1.13	1.07	94.7	85-115	WG621383
Cadmium	mg/l	1.13	1.08	95.6	85-115	WG621383
Chromium	mg/l	1.13	1.12	99.1	85-115	WG621383
Copper	mg/l	1.13	1.13	100.	85-115	WG621383
Manganese	mg/l	1.13	1.12	99.1	85-115	WG621383
Nickel	mg/l	1.13	1.14	101.	85-115	WG621383
Silver	mg/l	1.13	1.11	98.2	85-115	WG621383
Zinc	mg/l	1.13	1.11	98.2	85-115	WG621383
Lead	mg/l	1.13	1.19	105.	85-115	WG621383
TOC (Total Organic Carbon)	mg/l	75	71.3	95.1	85-115	WG621119
Suspended Solids	mg/l	773	764.	98.8	85-115	WG621123
TOC (Total Organic Carbon)	mg/l	75	72.2	96.3	85-115	WG621486

Analyte	Units	Laboratory Control Result	Ref	Sample %Rec	Duplicate Limit	RPD	Limit	Batch
Benzylbutyl phthalate	mg/l	0.00778	0.00757	78.0	10-178	2.66	40	WG620786
Bis(2-ethylhexyl)phthalate	mg/l	0.00941	0.00894	94.0	42-191	5.12	33	WG620786
Di-n-butyl phthalate	mg/l	0.00807	0.00855	81.0	33-175	5.71	39	WG620786
Di-n-octyl phthalate	mg/l	0.00805	0.00824	80.0	40-170	2.41	28	WG620786
Diethyl phthalate	mg/l	0.00833	0.00846	83.0	10-182	1.54	35	WG620786
Dimethyl phthalate	mg/l	0.00850	0.00834	85.0	10-165	1.92	37	WG620786
2,4,6-Tribromophenol				69.10	16-147			WG620786

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

SLR International Corp. - West Linn, OR
Scott Miller
1800 Blankenship Road, Suite 440

West Linn, OR 97068

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report
Level II

L603636

November 09, 2012

Analyte	Units	Laboratory Result	Control Ref	%Rec	Sample Limit	Duplicate RPD	Limit	Batch
2-Fluorobiphenyl				82.60	29-127			
2-Fluorophenol				49.00	10-75			
Nitrobenzene-d5				72.30	17-119			
Phenol-d5				38.90	10-63			
p-Terphenyl-d14				79.40	40-174			
Gasoline Range Organics-NWTPH	mg/l	5.11	5.36	93.0	70-124	4.70	20	WG620933
a,a,a-Trifluorotoluene(FID)				102.8	62-128			WG620933
1-Methylnaphthalene	mg/l	0.00193	0.00188	96.0	70-130	2.25	25	WG621223
2-Chloronaphthalene	mg/l	0.00200	0.00187	100.	70-130	6.93	25	WG621223
2-Methylnaphthalene	mg/l	0.00184	0.00182	92.0	70-130	0.930	25	WG621223
Acenaphthene	mg/l	0.00193	0.00185	97.0	70-130	4.38	25	WG621223
Acenaphthylene	mg/l	0.00201	0.00193	100.	70-130	4.01	25	WG621223
Anthracene	mg/l	0.00202	0.00200	101.	70-130	0.840	25	WG621223
Benzo(a)anthracene	mg/l	0.00187	0.00183	93.0	70-130	1.91	25	WG621223
Benzo(a)pyrene	mg/l	0.00186	0.00180	93.0	70-130	3.37	25	WG621223
Benzo(b)fluoranthene	mg/l	0.00180	0.00163	90.0	70-130	9.69	25	WG621223
Benzo(g,h,i)perylene	mg/l	0.00149	0.00163	74.0	70-130	8.93	25	WG621223
Benzo(k)fluoranthene	mg/l	0.00205	0.00190	103.	70-130	7.91	25	WG621223
Chrysene	mg/l	0.00191	0.00187	95.0	70-130	2.14	25	WG621223
Dibenz(a,h)anthracene	mg/l	0.00150	0.00168	75.0	70-130	11.8	25	WG621223
Fluoranthene	mg/l	0.00199	0.00204	100.	70-130	2.54	25	WG621223
Fluorene	mg/l	0.00186	0.00184	93.0	70-130	1.45	25	WG621223
Indeno(1,2,3-cd)pyrene	mg/l	0.00157	0.00171	78.0	70-130	8.79	25	WG621223
Naphthalene	mg/l	0.00188	0.00184	94.0	70-130	2.31	25	WG621223
Phenanthrene	mg/l	0.00193	0.00189	96.0	70-130	2.10	25	WG621223
Pyrene	mg/l	0.00202	0.00180	101.	70-130	11.6	25	WG621223
2-Fluorobiphenyl				110.0	70-130			WG621223
Nitrobenzene-d5				103.0	70-130			WG621223
p-Terphenyl-d14				107.0	70-130			WG621223
Benzylbutyl phthalate	mg/l	0.00702	0.00714	70.0	10-178	1.71	40	WG621036
Bis(2-ethylhexyl)phthalate	mg/l	0.00854	0.00856	85.0	42-191	0.190	33	WG621036
Di-n-butyl phthalate	mg/l	0.00768	0.00751	77.0	33-175	2.26	39	WG621036
Di-n-octyl phthalate	mg/l	0.00733	0.00739	73.0	40-170	0.900	28	WG621036
Diethyl phthalate	mg/l	0.00742	0.00757	74.0	10-182	1.99	35	WG621036
Dimethyl phthalate	mg/l	0.00717	0.00728	72.0	10-165	1.61	37	WG621036
2,4,6-Tribromophenol				57.00	16-147			WG621036
2-Fluorobiphenyl				65.30	29-127			WG621036
2-Fluorophenol				33.40	10-75			WG621036
Nitrobenzene-d5				57.50	17-119			WG621036
Phenol-d5				23.10	10-63			WG621036
p-Terphenyl-d14				69.00	40-174			WG621036
Diesel Range Organics (DRO)	mg/l	0.802	0.774	107.	50-150	3.46	20	WG620788
Residual Range Organics (RRO)	mg/l	0.873	0.638	116.	50-150	31.1*	20	WG620788
				87.71	50-150			WG620788
PCB 1016	mg/l	0.000297	0.000334	59.0	32-126	11.8	22	WG621208
PCB 1260	mg/l	0.000302	0.000291	60.0	58-128	3.62	20	WG621208
Decachlorobiphenyl				73.30	10-141			WG621208
Tetrachloro-m-xylene				79.80	10-125			WG621208
TOC (Total Organic Carbon)	mg/l	71.5	71.3	95.0	85-115	0.280	20	WG621119

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

SLR International Corp. - West Linn, OR
Scott Miller
1800 Blankenship Road, Suite 440
West Linn, OR 97068

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report
Level II

L603636

November 09, 2012

Analyte	Units	Laboratory Control		%Rec	Limit	RPD	Limit	Batch
		Result	Ref					
Suspended Solids	mg/l	792.	764.	102.	85-115	3.60	5	WG621123
TOC (Total Organic Carbon)	mg/l	72.0	72.2	96.0	85-115	0.277	20	WG621486
Analyte	Units	Matrix Spike			Limit	Ref Samp	Batch	
		MS Res	Ref Res	TV				
Mercury	mg/l	0.00323	0	.003	108.	80-120	L603652-01	WG620865
Gasoline Range Organics-NWTPH a,a,a-Trifluorotoluene(FID)	mg/l	5.07	0.0934	5.5	90.5	58-122	L603474-03	WG620933
					102.7	62-128		WG620933
Aluminum	mg/l	1.74	0.577	1.13	103.	75-125	L603556-14	WG621383
Antimony	mg/l	1.10	0	1.13	97.3	75-125	L603556-14	WG621383
Arsenic	mg/l	1.10	0.00440	1.13	97.0	75-125	L603556-14	WG621383
Cadmium	mg/l	1.09	0	1.13	96.5	75-125	L603556-14	WG621383
Chromium	mg/l	1.13	0	1.13	100.	75-125	L603556-14	WG621383
Copper	mg/l	1.16	0.00270	1.13	102.	75-125	L603556-14	WG621383
Manganese	mg/l	1.57	0.433	1.13	101.	75-125	L603556-14	WG621383
Nickel	mg/l	1.14	0	1.13	101.	75-125	L603556-14	WG621383
Silver	mg/l	0.170	0	1.13	15.0*	75-125	L603556-14	WG621383
Zinc	mg/l	1.20	0.0600	1.13	101.	75-125	L603556-14	WG621383
Lead	mg/l	1.17	0	1.13	104.	75-125	L603556-14	WG621383
TOC (Total Organic Carbon)	mg/l	46.0	1.10	50	89.8	80-120	L603356-01	WG621119
TOC (Total Organic Carbon)	mg/l	49.2	2.80	50	92.8	80-120	L603652-01	WG621486
Analyte	Units	Matrix Spike			Limit	RPD	Limit	Ref Samp
		MSD	Ref	%Rec				
Mercury	mg/l	0.00325	0.00323	108.	80-120	0.617	20	L603652-01
Gasoline Range Organics-NWTPH a,a,a-Trifluorotoluene(FID)	mg/l	5.61	5.07	100.	58-122	10.0	20	L603474-03
				102.6	62-128			WG620933
Aluminum	mg/l	1.86	1.74	114.	75-125	6.67	20	L603556-14
Antimony	mg/l	1.10	1.10	97.3	75-125	0	20	L603556-14
Arsenic	mg/l	1.10	1.10	97.0	75-125	0	20	L603556-14
Cadmium	mg/l	1.09	1.09	96.5	75-125	0	20	L603556-14
Chromium	mg/l	1.12	1.13	99.1	75-125	0.889	20	L603556-14
Copper	mg/l	1.16	1.16	102.	75-125	0	20	L603556-14
Manganese	mg/l	1.56	1.57	99.7	75-125	0.639	20	L603556-14
Nickel	mg/l	1.13	1.14	100.	75-125	0.881	20	L603556-14
Silver	mg/l	0.105	0.170	9.29*	75-125	47.3*	20	L603556-14
Zinc	mg/l	1.20	1.20	101.	75-125	0	20	L603556-14
Lead	mg/l	1.13	1.17	100.	75-125	3.48	20	L603556-14
TOC (Total Organic Carbon)	mg/l	45.8	46.0	89.4	80-120	0.436	20	L603356-01
								WG621119

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

**YOUR LAB OF CHOICE**

SLR International Corp. - West Linn, OR
Scott Miller
1800 Blankenship Road, Suite 440
West Linn, OR 97068

**Quality Assurance Report
Level II**

L603636

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

November 09, 2012

Analyte	Units	Matrix	Spike	Duplicate	Limit	RPD	Limit	Ref	Samp	Batch
TOC (Total Organic Carbon)	mg/l	49.6	49.2	93.6	80-120	0.810	20	L603652-01	WG621486	

Batch number /Run number / Sample number cross reference

WG620865: R2421398: L603636-01 02 03
WG620786: R2423757: L603636-01 02
WG620933: R2425558: L603636-01 02 03
WG621223: R2425919 R2430862: L603636-01 02 03
WG621036: R2426237: L603636-03
WG620788: R2426417: L603636-01 02 03
WG621208: R2427077: L603636-01 02 03
WG621383: R2428117: L603636-01 02 03
WG621119: R2429237: L603636-01 02
WG621123: R2429277: L603636-01 02 03
WG621486: R2435740: L603636-03

* * Calculations are performed prior to rounding of reported values.

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

SLR International Corp. - West Linn, OR
Scott Miller
1800 Blankenship Road, Suite 440
West Linn, OR 97068

Quality Assurance Report
Level II

L603636

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

November 09, 2012

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

SLR International Corp. - West Linn, OR 1800 Blankenship Road, Suite 440 West Linn, OR 97068		Billing information:		Analysis/Container/Preservative		Chain of Custody			
		Accounts Payable 1800 Blankenship Rd, Ste 440 West Linn, OR 97068						Page _____ of _____	
Report to: Scott Miller		Email: smiller@slrcorp.com; ewheeler							
Project Description: Portland SCE		City/State Collected PORTLAND CR							
Phone: (503) 723-4423 FAX:	Client Project #: SW SAMPLING		Lab Project # SLRWLOR-WHEELER						
Collected by (print): NICH BRENNAN	Site/Facility ID#:		P.O. #:						
Collected by (signature):	Rush? (Lab MUST Be Notified) Same Day 200% Next Day 100% Two Day 50% Three Day 25%		Date Results Needed		No. of Cntrs				
Immediately Packed on Ice N Y X			Email? No Yes FAX? No Yes						
Sample ID	Comp/Grab	Matrix*	Depth	Date	Time				
CB-11	136	GW		10/30	1330	14	X X X X X X X X		L603636-01
CB-EAST	G	GW		10/30	1350	14	X X X X X X X X		-02
CB-3	G	GW		10/30	1450	14	X X X X X X X X		-03
		GW		44			X X X X X X X X		
*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____						pH	Temp		
Remarks: Metals = Al, Sb, As, Cd, Cr, Cu, Pb, Mn, Hg, Ni, Ag, Zn						Flow	Other		



12065 Lebanon Road
Mt Juliet, TN 37122

Phone: (800) 767-5859
Phone: (615) 758-5858
Fax: (615) 758-5859

A162

Acctnum: **SLRWLOR** (lab use only)
Template/Prelogin **T79169/P405576**
Cooler #: **9-11 MWS**
Shipped Via: **FedEX Ground**

Remarks/Contaminant Sample # (lab only)

Relinquished by: (Signature) <i>R. Miller</i>	Date: 10/30/12	Time: 1430	Received by: (Signature)	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/>	Condition: OK <i>M</i>	(lab use only)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 52°	Bottles Received: 42+1TB	COC Seal Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>J. Miller</i>	Date: 10-31-12	Time: 0900	pH Checked: 12 <input type="checkbox"/> NCF:



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859
Tax I.D. 62-0814289
Est. 1970

Elisa Wheeler
SLR International Corp. - West Linn, OR
1800 Blankenship Road, Suite 440
West Linn, OR 97068

Report Summary

Tuesday March 19, 2013

Report Number: L623684

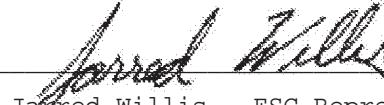
Samples Received: 03/07/13

Client Project: SW SAMPLING

Description: Portland SCE

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:


Jared Willis, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Elisa Wheeler
SLR International Corp. - West Linn
1800 Blankenship Road, Suite 440
West Linn, OR 97068

March 19, 2013

Date Received : March 07, 2013
Description : Portland SCE
Sample ID : CB-EAST
Collected By : Noah Brennan
Collection Date : 03/06/13 09:30

ESC Sample # : L623684-01

Site ID :

Project # : SW SAMPLING

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
TOC (Total Organic Carbon)	8200	190	1000	ug/l		9060A	03/15/13	1
Suspended Solids	430000	350	1000	ug/l		2540 D-	03/13/13	1
Mercury	0.15	0.049	0.20	ug/l	J	7470A	03/08/13	1
Aluminum	11000	35.	100	ug/l		6010B	03/11/13	1
Antimony	U	7.5	20.	ug/l		6010B	03/11/13	1
Arsenic	U	6.5	20.	ug/l		6010B	03/11/13	1
Cadmium	4.2	0.70	5.0	ug/l	J	6010B	03/11/13	1
Chromium	56.	1.4	10.	ug/l		6010B	03/11/13	1
Copper	91.	5.3	20.	ug/l		6010B	03/11/13	1
Lead	130	1.9	5.0	ug/l		6010B	03/11/13	1
Manganese	1000	1.2	10.	ug/l		6010B	03/11/13	1
Nickel	20.	4.9	20.	ug/l	J	6010B	03/11/13	1
Silver	U	2.8	10.	ug/l		6010B	03/11/13	1
Zinc	810	5.9	30.	ug/l		6010B	03/11/13	1
Gasoline Range Organics-NWTPH	U	32.	100	ug/l		NWTPHGX	03/08/13	1
Surrogate Recovery				% Rec.		NWTPHGX	03/08/13	1
a,a,a-Trifluorotoluene(FID)	104.			% Rec.		NWTPHGX	03/08/13	1
Diesel Range Organics (DRO)	U	33.	100	ug/l		NWTPHDX	03/13/13	1
Residual Range Organics (RRO)	U	82.	250	ug/l		NWTPHDX	03/13/13	1
Surrogate Recovery				% Rec.		NWTPHDX	03/13/13	1
o-Terphenyl	63.9			% Rec.		NWTPHDX	03/13/13	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.076	0.50	ug/l		8270C-S	03/13/13	10
Acenaphthene	U	0.082	0.50	ug/l		8270C-S	03/13/13	10
Acenaphthylene	U	0.068	0.50	ug/l		8270C-S	03/13/13	10
Benzo(a)anthracene	0.14	0.12	0.50	ug/l	J	8270C-S	03/13/13	10
Benzo(a)pyrene	U	0.12	0.50	ug/l		8270C-S	03/13/13	10
Benzo(b)fluoranthene	U	0.14	0.50	ug/l		8270C-S	03/13/13	10
Benzo(g,h,i)perylene	0.12	0.11	0.50	ug/l	J	8270C-S	03/13/13	10
Benzo(k)fluoranthene	U	0.14	0.50	ug/l		8270C-S	03/13/13	10
Chrysene	U	0.11	0.50	ug/l		8270C-S	03/13/13	10
Dibenz(a,h)anthracene	U	0.040	0.50	ug/l		8270C-S	03/13/13	10
Fluoranthene	0.19	0.16	0.50	ug/l	J	8270C-S	03/13/13	10
Fluorene	U	0.085	0.50	ug/l		8270C-S	03/13/13	10
Indeno(1,2,3-cd)pyrene	U	0.15	0.50	ug/l		8270C-S	03/13/13	10
Naphthalene	U	0.20	2.5	ug/l		8270C-S	03/13/13	10
Phenanthrene	0.12	0.082	0.50	ug/l	J	8270C-S	03/13/13	10

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

MDL = Minimum Detection Limit = LOD = TRRP SDL

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 03/19/13 15:40 Printed: 03/19/13 15:40



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Elisa Wheeler
SLR International Corp. - West Linn
1800 Blankenship Road, Suite 440
West Linn, OR 97068

March 19, 2013

Date Received : March 07, 2013
Description : Portland SCE

ESC Sample # : L623684-01

Sample ID : CB-EAST

Site ID :

Collected By : Noah Brennan
Collection Date : 03/06/13 09:30

Project # : SW SAMPLING

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Pyrene	0.27	0.12	0.50	ug/l	J	8270C-S	03/13/13	10
1-Methylnaphthalene	U	0.082	2.5	ug/l		8270C-S	03/13/13	10
2-Methylnaphthalene	U	0.090	2.5	ug/l		8270C-S	03/13/13	10
2-Chloronaphthalene	U	0.065	2.5	ug/l		8270C-S	03/13/13	10
Surrogate Recovery								
Nitrobenzene-d5	72.9			% Rec.		8270C-S	03/13/13	10
2-Fluorobiphenyl	97.4			% Rec.		8270C-S	03/13/13	10
p-Terphenyl-d14	89.0			% Rec.		8270C-S	03/13/13	10
Polychlorinated Biphenyls								
PCB 1016	U	0.10	0.50	ug/l		8082 A	03/18/13	1
PCB 1221	U	0.073	0.50	ug/l		8082 A	03/18/13	1
PCB 1232	U	0.042	0.50	ug/l		8082 A	03/18/13	1
PCB 1242	U	0.047	0.50	ug/l		8082 A	03/18/13	1
PCB 1248	U	0.086	0.50	ug/l		8082 A	03/18/13	1
PCB 1254	U	0.047	0.50	ug/l		8082 A	03/18/13	1
PCB 1260	U	0.12	0.50	ug/l		8082 A	03/18/13	1
PCBs Surrogates								
Decachlorobiphenyl	79.5			% Rec.		8082 A	03/18/13	1
Tetrachloro-m-xylene	94.8			% Rec.		8082 A	03/18/13	1
Total Phthalates	6.2		30.	ug/l	J	8270 D	03/09/13	5
Bis(2-ethylhexyl)phthalate	6.2	3.5	15.	ug/l	J	8270 D	03/09/13	5
Benzylbutyl phthalate	U	1.4	15.	ug/l		8270 D	03/09/13	5
Diethyl phthalate	U	1.4	15.	ug/l		8270 D	03/09/13	5
Dimethyl phthalate	U	1.4	15.	ug/l		8270 D	03/09/13	5
Di-n-butyl phthalate	U	1.3	15.	ug/l		8270 D	03/09/13	5
Di-n-octyl phthalate	U	1.4	15.	ug/l		8270 D	03/09/13	5
Surrogate Recovery								
2-Fluorophenol	33.5			% Rec.		8270 D	03/09/13	5
Phenol-d5	36.0			% Rec.		8270 D	03/09/13	5
Nitrobenzene-d5	69.6			% Rec.		8270 D	03/09/13	5
2-Fluorobiphenyl	84.9			% Rec.		8270 D	03/09/13	5
2,4,6-Tribromophenol	72.3			% Rec.		8270 D	03/09/13	5
p-Terphenyl-d14	92.0			% Rec.		8270 D	03/09/13	5

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

MDL = Minimum Detection Limit = LOD = TRRP SDL

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 03/19/13 15:40 Printed: 03/19/13 15:40



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Elisa Wheeler
SLR International Corp. - West Linn
1800 Blankenship Road, Suite 440
West Linn, OR 97068

March 19, 2013

Date Received : March 07, 2013
Description : Portland SCE
Sample ID : CB-11
Collected By : Noah Brennan
Collection Date : 03/06/13 10:15

ESC Sample # : L623684-02

Site ID :

Project # : SW SAMPLING

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
TOC (Total Organic Carbon)	4300	190	1000	ug/l		9060A	03/15/13	1
Suspended Solids	210000	350	1000	ug/l	J3	2540 D-	03/13/13	1
Mercury	U	0.049	0.20	ug/l		7470A	03/08/13	1
Aluminum	8300	35.	100	ug/l		6010B	03/11/13	1
Antimony	U	7.5	20.	ug/l		6010B	03/11/13	1
Arsenic	U	6.5	20.	ug/l		6010B	03/11/13	1
Cadmium	2.7	0.70	5.0	ug/l	J	6010B	03/11/13	1
Chromium	13.	1.4	10.	ug/l		6010B	03/11/13	1
Copper	46.	5.3	20.	ug/l		6010B	03/11/13	1
Lead	26.	1.9	5.0	ug/l		6010B	03/11/13	1
Manganese	450	1.2	10.	ug/l		6010B	03/11/13	1
Nickel	16.	4.9	20.	ug/l	J	6010B	03/11/13	1
Silver	U	2.8	10.	ug/l		6010B	03/11/13	1
Zinc	330	5.9	30.	ug/l		6010B	03/11/13	1
Gasoline Range Organics-NWTPH	U	32.	100	ug/l		NWTPHGX	03/08/13	1
Surrogate Recovery				% Rec.		NWTPHGX	03/08/13	1
a,a,a-Trifluorotoluene(FID)	104.			% Rec.		NWTPHGX	03/08/13	1
Diesel Range Organics (DRO)	150	33.	100	ug/l		NWTPHDX	03/16/13	1
Residual Range Organics (RRO)	640	82.	250	ug/l		NWTPHDX	03/16/13	1
Surrogate Recovery				% Rec.		NWTPHDX	03/16/13	1
o-Terphenyl	51.8			% Rec.		NWTPHDX	03/16/13	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.15	1.0	ug/l	O	8270C-S	03/13/13	20
Acenaphthene	U	0.16	1.0	ug/l	O	8270C-S	03/13/13	20
Acenaphthylene	U	0.14	1.0	ug/l	O	8270C-S	03/13/13	20
Benzo(a)anthracene	U	0.24	1.0	ug/l	O	8270C-S	03/13/13	20
Benzo(a)pyrene	U	0.23	1.0	ug/l	O	8270C-S	03/13/13	20
Benzo(b)fluoranthene	U	0.28	1.0	ug/l	O	8270C-S	03/13/13	20
Benzo(g,h,i)perylene	U	0.23	1.0	ug/l	O	8270C-S	03/13/13	20
Benzo(k)fluoranthene	U	0.27	1.0	ug/l	O	8270C-S	03/13/13	20
Chrysene	U	0.22	1.0	ug/l	O	8270C-S	03/13/13	20
Dibenz(a,h)anthracene	U	0.079	1.0	ug/l	O	8270C-S	03/13/13	20
Fluoranthene	U	0.31	1.0	ug/l	O	8270C-S	03/13/13	20
Fluorene	U	0.17	1.0	ug/l	O	8270C-S	03/13/13	20
Indeno(1,2,3-cd)pyrene	U	0.30	1.0	ug/l	O	8270C-S	03/13/13	20
Naphthalene	U	0.40	5.0	ug/l	O	8270C-S	03/13/13	20
Phenanthrene	U	0.16	1.0	ug/l	O	8270C-S	03/13/13	20

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

MDL = Minimum Detection Limit = LOD = TRRP SDL

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 03/19/13 15:40 Printed: 03/19/13 15:40

L623684-02 (8270PHTH) - Dilution due to matrix

L623684-02 (PAHSIMLVID) - Dilution due to matrix



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Elisa Wheeler
SLR International Corp. - West Linn
1800 Blankenship Road, Suite 440
West Linn, OR 97068

March 19, 2013

Date Received : March 07, 2013
Description : Portland SCE

ESC Sample # : L623684-02

Sample ID : CB-11

Site ID :

Collected By : Noah Brennan
Collection Date : 03/06/13 10:15

Project # : SW SAMPLING

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Pyrene	U	0.23	1.0	ug/l	O	8270C-S	03/13/13	20
1-Methylnaphthalene	U	0.16	5.0	ug/l	O	8270C-S	03/13/13	20
2-Methylnaphthalene	U	0.18	5.0	ug/l	O	8270C-S	03/13/13	20
2-Chloronaphthalene	U	0.13	5.0	ug/l	O	8270C-S	03/13/13	20
Surrogate Recovery								
Nitrobenzene-d5	102.			% Rec.	J7	8270C-S	03/13/13	20
2-Fluorobiphenyl	87.1			% Rec.	J7	8270C-S	03/13/13	20
p-Terphenyl-d14	63.2			% Rec.	J7	8270C-S	03/13/13	20
Polychlorinated Biphenyls								
PCB 1016	U	0.10	0.50	ug/l		8082 A	03/18/13	1
PCB 1221	U	0.073	0.50	ug/l		8082 A	03/18/13	1
PCB 1232	U	0.042	0.50	ug/l		8082 A	03/18/13	1
PCB 1242	U	0.047	0.50	ug/l		8082 A	03/18/13	1
PCB 1248	U	0.086	0.50	ug/l		8082 A	03/18/13	1
PCB 1254	U	0.047	0.50	ug/l		8082 A	03/18/13	1
PCB 1260	U	0.12	0.50	ug/l		8082 A	03/18/13	1
PCBs Surrogates								
Decachlorobiphenyl	72.5			% Rec.		8082 A	03/18/13	1
Tetrachloro-m-xylene	109.			% Rec.		8082 A	03/18/13	1
Total Phthalates	U		60.	ug/l	O	8270 D	03/09/13	10
Bis(2-ethylhexyl)phthalate	U	7.1	30.	ug/l	O	8270 D	03/09/13	10
Benzylbutyl phthalate	U	2.8	30.	ug/l	O	8270 D	03/09/13	10
Diethyl phthalate	U	2.8	30.	ug/l	O	8270 D	03/09/13	10
Dimethyl phthalate	U	2.8	30.	ug/l	O	8270 D	03/09/13	10
Di-n-butyl phthalate	U	2.7	30.	ug/l	O	8270 D	03/09/13	10
Di-n-octyl phthalate	U	2.8	30.	ug/l	O	8270 D	03/09/13	10
Surrogate Recovery								
2-Fluorophenol	30.7			% Rec.		8270 D	03/09/13	10
Phenol-d5	22.3			% Rec.		8270 D	03/09/13	10
Nitrobenzene-d5	78.8			% Rec.		8270 D	03/09/13	10
2-Fluorobiphenyl	95.6			% Rec.		8270 D	03/09/13	10
2,4,6-Tribromophenol	62.0			% Rec.		8270 D	03/09/13	10
p-Terphenyl-d14	86.1			% Rec.		8270 D	03/09/13	10

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

MDL = Minimum Detection Limit = LOD = TRRP SDL

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 03/19/13 15:40 Printed: 03/19/13 15:40

L623684-02 (8270PHTH) - Dilution due to matrix

L623684-02 (PAHSIMLVID) - Dilution due to matrix



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Elisa Wheeler
SLR International Corp. - West Linn
1800 Blankenship Road, Suite 440
West Linn, OR 97068

March 19, 2013

Date Received : March 07, 2013
Description : Portland SCE
Sample ID : CB-3
Collected By : Noah Brennan
Collection Date : 03/06/13 11:00

ESC Sample # : L623684-03

Site ID :

Project # : SW SAMPLING

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
TOC (Total Organic Carbon)	3500	190	1000	ug/l		9060A	03/15/13	1
Suspended Solids	210000	350	1000	ug/l		2540 D-	03/13/13	1
Mercury	U	0.049	0.20	ug/l		7470A	03/08/13	1
Aluminum	8800	35.	100	ug/l		6010B	03/11/13	1
Antimony	U	7.5	20.	ug/l		6010B	03/11/13	1
Arsenic	U	6.5	20.	ug/l		6010B	03/11/13	1
Cadmium	2.8	0.70	5.0	ug/l	J	6010B	03/11/13	1
Chromium	16.	1.4	10.	ug/l		6010B	03/11/13	1
Copper	46.	5.3	20.	ug/l		6010B	03/11/13	1
Lead	19.	1.9	5.0	ug/l		6010B	03/11/13	1
Manganese	520	1.2	10.	ug/l		6010B	03/11/13	1
Nickel	25.	4.9	20.	ug/l		6010B	03/11/13	1
Silver	U	2.8	10.	ug/l		6010B	03/11/13	1
Zinc	290	5.9	30.	ug/l		6010B	03/11/13	1
Gasoline Range Organics-NWTPH	U	32.	100	ug/l		NWTPHGX	03/08/13	1
Surrogate Recovery				% Rec.		NWTPHGX	03/08/13	1
a,a,a-Trifluorotoluene(FID)	104.			% Rec.		NWTPHGX	03/08/13	1
Diesel Range Organics (DRO)	160	33.	100	ug/l		NWTPHDX	03/16/13	1
Residual Range Organics (RRO)	870	82.	250	ug/l		NWTPHDX	03/16/13	1
Surrogate Recovery				% Rec.		NWTPHDX	03/16/13	1
o-Terphenyl	54.8			% Rec.		NWTPHDX	03/16/13	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.15	1.0	ug/l	O	8270C-S	03/13/13	20
Acenaphthene	U	0.16	1.0	ug/l	O	8270C-S	03/13/13	20
Acenaphthylene	U	0.14	1.0	ug/l	O	8270C-S	03/13/13	20
Benzo(a)anthracene	U	0.24	1.0	ug/l	O	8270C-S	03/13/13	20
Benzo(a)pyrene	U	0.23	1.0	ug/l	O	8270C-S	03/13/13	20
Benzo(b)fluoranthene	U	0.28	1.0	ug/l	O	8270C-S	03/13/13	20
Benzo(g,h,i)perylene	U	0.23	1.0	ug/l	O	8270C-S	03/13/13	20
Benzo(k)fluoranthene	U	0.27	1.0	ug/l	O	8270C-S	03/13/13	20
Chrysene	U	0.22	1.0	ug/l	O	8270C-S	03/13/13	20
Dibenz(a,h)anthracene	U	0.079	1.0	ug/l	O	8270C-S	03/13/13	20
Fluoranthene	U	0.31	1.0	ug/l	O	8270C-S	03/13/13	20
Fluorene	U	0.17	1.0	ug/l	O	8270C-S	03/13/13	20
Indeno(1,2,3-cd)pyrene	U	0.30	1.0	ug/l	O	8270C-S	03/13/13	20
Naphthalene	U	0.40	5.0	ug/l	O	8270C-S	03/13/13	20
Phenanthrene	U	0.16	1.0	ug/l	O	8270C-S	03/13/13	20

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

MDL = Minimum Detection Limit = LOD = TRRP SDL

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 03/19/13 15:40 Printed: 03/19/13 15:40

L623684-03 (8270PHTH) - Dilution due to matrix

L623684-03 (PAHSIMLVID) - Dilution due to matrix



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Elisa Wheeler
SLR International Corp. - West Linn
1800 Blankenship Road, Suite 440
West Linn, OR 97068

March 19, 2013

Date Received : March 07, 2013
Description : Portland SCE

ESC Sample # : L623684-03

Sample ID : CB-3

Site ID :

Collected By : Noah Brennan
Collection Date : 03/06/13 11:00

Project # : SW SAMPLING

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Pyrene	U	0.23	1.0	ug/l	O	8270C-S	03/13/13	20
1-Methylnaphthalene	U	0.16	5.0	ug/l	O	8270C-S	03/13/13	20
2-Methylnaphthalene	U	0.18	5.0	ug/l	O	8270C-S	03/13/13	20
2-Chloronaphthalene	U	0.13	5.0	ug/l	O	8270C-S	03/13/13	20
Surrogate Recovery								
Nitrobenzene-d5	127.			% Rec.	J7	8270C-S	03/13/13	20
2-Fluorobiphenyl	81.5			% Rec.	J7	8270C-S	03/13/13	20
p-Terphenyl-d14	68.7			% Rec.	J7	8270C-S	03/13/13	20
Polychlorinated Biphenyls								
PCB 1016	U	0.10	0.50	ug/l		8082 A	03/18/13	1
PCB 1221	U	0.073	0.50	ug/l		8082 A	03/18/13	1
PCB 1232	U	0.042	0.50	ug/l		8082 A	03/18/13	1
PCB 1242	U	0.047	0.50	ug/l		8082 A	03/18/13	1
PCB 1248	U	0.086	0.50	ug/l		8082 A	03/18/13	1
PCB 1254	U	0.047	0.50	ug/l		8082 A	03/18/13	1
PCB 1260	U	0.12	0.50	ug/l		8082 A	03/18/13	1
PCBs Surrogates								
Decachlorobiphenyl	67.9			% Rec.		8082 A	03/18/13	1
Tetrachloro-m-xylene	88.8			% Rec.		8082 A	03/18/13	1
Total Phthalates	U		60.	ug/l	O	8270 D	03/09/13	10
Bis(2-ethylhexyl)phthalate	U	7.1	30.	ug/l	O	8270 D	03/09/13	10
Benzylbutyl phthalate	U	2.8	30.	ug/l	O	8270 D	03/09/13	10
Diethyl phthalate	U	2.8	30.	ug/l	O	8270 D	03/09/13	10
Dimethyl phthalate	U	2.8	30.	ug/l	O	8270 D	03/09/13	10
Di-n-butyl phthalate	U	2.7	30.	ug/l	O	8270 D	03/09/13	10
Di-n-octyl phthalate	U	2.8	30.	ug/l	O	8270 D	03/09/13	10
Surrogate Recovery								
2-Fluorophenol	45.6			% Rec.		8270 D	03/09/13	10
Phenol-d5	36.9			% Rec.		8270 D	03/09/13	10
Nitrobenzene-d5	88.6			% Rec.		8270 D	03/09/13	10
2-Fluorobiphenyl	111.			% Rec.		8270 D	03/09/13	10
2,4,6-Tribromophenol	89.5			% Rec.		8270 D	03/09/13	10
p-Terphenyl-d14	111.			% Rec.		8270 D	03/09/13	10

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

MDL = Minimum Detection Limit = LOD = TRRP SDL

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 03/19/13 15:40 Printed: 03/19/13 15:40

L623684-03 (8270PHTH) - Dilution due to matrix

L623684-03 (PAHSIMLVID) - Dilution due to matrix

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L623684-01	WG650102	SAMP	Cadmium	R2576621	J
	WG650102	SAMP	Nickel	R2576621	J
	WG639968	SAMP	Mercury	R2574837	J
	WG640054	SAMP	Total Phthalates	R2575667	J
	WG640054	SAMP	Bis(2-ethylhexyl)phthalate	R2575667	J
	WG640051	SAMP	Benzo(a)anthracene	R2579897	J
	WG640051	SAMP	Benzo(g,h,i)perylene	R2579897	J
	WG640051	SAMP	Fluoranthene	R2579897	J
	WG640051	SAMP	Phenanthrene	R2579897	J
	WG640051	SAMP	Pyrene	R2579897	J
L623684-02	WG650102	SAMP	Cadmium	R2576621	J
	WG650102	SAMP	Nickel	R2576621	J
	WG640054	SAMP	Total Phthalates	R2575667	O
	WG640054	SAMP	Bis(2-ethylhexyl)phthalate	R2575667	O
	WG640054	SAMP	Benzylbutyl phthalate	R2575667	O
	WG640054	SAMP	Diethyl phthalate	R2575667	O
	WG640054	SAMP	Dimethyl phthalate	R2575667	O
	WG640054	SAMP	Di-n-butyl phthalate	R2575667	O
	WG640054	SAMP	Di-n-octyl phthalate	R2575667	O
	WG640051	SAMP	Anthracene	R2579897	O
	WG640051	SAMP	Acenaphthene	R2579897	O
	WG640051	SAMP	Acenaphthylene	R2579897	O
	WG640051	SAMP	Benzo(a)anthracene	R2579897	O
	WG640051	SAMP	Benzo(a)pyrene	R2579897	O
	WG640051	SAMP	Benzo(b)fluoranthene	R2579897	O
	WG640051	SAMP	Benzo(g,h,i)perylene	R2579897	O
	WG640051	SAMP	Benzo(k)fluoranthene	R2579897	O
	WG640051	SAMP	Chrysene	R2579897	O
	WG640051	SAMP	Dibenz(a,h)anthracene	R2579897	O
	WG640051	SAMP	Fluoranthene	R2579897	O
	WG640051	SAMP	Fluorene	R2579897	O
	WG640051	SAMP	Indeno(1,2,3-cd)pyrene	R2579897	O
	WG640051	SAMP	Naphthalene	R2579897	O
	WG640051	SAMP	Phenanthrene	R2579897	O
	WG640051	SAMP	Pyrene	R2579897	O
	WG640051	SAMP	1-Methylnaphthalene	R2579897	O
	WG640051	SAMP	2-Methylnaphthalene	R2579897	O
	WG640051	SAMP	2-Chloronaphthalene	R2579897	O
	WG640051	SAMP	Nitrobenzene-d5	R2579897	J7
	WG640051	SAMP	2-Fluorobiphenyl	R2579897	J7
	WG640051	SAMP	p-Terphenyl-d14	R2579897	J7
	WG650114	SAMP	Suspended Solids	R2578539	J3
L623684-03	WG650102	SAMP	Cadmium	R2576621	J
	WG640054	SAMP	Total Phthalates	R2575667	O
	WG640054	SAMP	Bis(2-ethylhexyl)phthalate	R2575667	O
	WG640054	SAMP	Benzylbutyl phthalate	R2575667	O
	WG640054	SAMP	Diethyl phthalate	R2575667	O
	WG640054	SAMP	Dimethyl phthalate	R2575667	O
	WG640054	SAMP	Di-n-butyl phthalate	R2575667	O
	WG640054	SAMP	Di-n-octyl phthalate	R2575667	O
	WG640051	SAMP	Anthracene	R2579897	O
	WG640051	SAMP	Acenaphthene	R2579897	O
	WG640051	SAMP	Acenaphthylene	R2579897	O
	WG640051	SAMP	Benzo(a)anthracene	R2579897	O
	WG640051	SAMP	Benzo(a)pyrene	R2579897	O
	WG640051	SAMP	Benzo(b)fluoranthene	R2579897	O
	WG640051	SAMP	Benzo(g,h,i)perylene	R2579897	O
	WG640051	SAMP	Benzo(k)fluoranthene	R2579897	O
	WG640051	SAMP	Chrysene	R2579897	O
	WG640051	SAMP	Dibenz(a,h)anthracene	R2579897	O
	WG640051	SAMP	Fluoranthene	R2579897	O
	WG640051	SAMP	Fluorene	R2579897	O
	WG640051	SAMP	Indeno(1,2,3-cd)pyrene	R2579897	O
	WG640051	SAMP	Naphthalene	R2579897	O
	WG640051	SAMP	Phenanthrene	R2579897	O
	WG640051	SAMP	Pyrene	R2579897	O
	WG640051	SAMP	1-Methylnaphthalene	R2579897	O
	WG640051	SAMP	2-Methylnaphthalene	R2579897	O
	WG640051	SAMP	2-Chloronaphthalene	R2579897	O

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
WG640051	SAMP	Nitrobenzene-d5		R2579897	J7
WG640051	SAMP	2-Fluorobiphenyl		R2579897	J7
WG640051	SAMP	p-Terphenyl-d14		R2579897	J7

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J3	The associated batch QC was outside the established quality control range for precision.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
03/19/13 at 15:41:00

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L623684-01 Account: SLRWLOR Received: 03/07/13 09:30 Due Date: 03/15/13 00:00 RPT Date: 03/19/13 15:40

Sample: L623684-02 Account: SLRWLOR Received: 03/07/13 09:30 Due Date: 03/15/13 00:00 RPT Date: 03/19/13 15:40

Sample: L623684-03 Account: SLRWLOR Received: 03/07/13 09:30 Due Date: 03/15/13 00:00 RPT Date: 03/19/13 15:40



L A B S C I E N C E S

YOUR LAB OF CHOICE

SLR International Corp. - West Linn, OR
Elisa Wheeler
1800 Blankenship Road, Suite 440

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

West Linn, OR 97068

Quality Assurance Report
Level II

L623684

March 19, 2013

Analyte	Result	Laboratory Blank Units	% Rec	Limit	Batch	Date Analyzed
Mercury	< .0002	mg/l			WG639968	03/08/13 09:05
Benzylbutyl phthalate	< .003	mg/l			WG640054	03/09/13 09:10
Bis(2-ethylhexyl)phthalate	< .003	mg/l			WG640054	03/09/13 09:10
Di-n-butyl phthalate	< .003	mg/l			WG640054	03/09/13 09:10
Di-n-octyl phthalate	< .003	mg/l			WG640054	03/09/13 09:10
Diethyl phthalate	< .003	mg/l			WG640054	03/09/13 09:10
Dimethyl phthalate	< .003	mg/l			WG640054	03/09/13 09:10
2,4,6-Tribromophenol		% Rec.	78.60	16-147	WG640054	03/09/13 09:10
2-Fluorobiphenyl		% Rec.	78.20	29-127	WG640054	03/09/13 09:10
2-Fluorophenol		% Rec.	41.00	10-75	WG640054	03/09/13 09:10
Nitrobenzene-d5		% Rec.	68.90	17-119	WG640054	03/09/13 09:10
Phenol-d5		% Rec.	32.20	10-63	WG640054	03/09/13 09:10
p-Terphenyl-d14		% Rec.	97.10	40-174	WG640054	03/09/13 09:10
Aluminum	< .1	mg/l			WG650102	03/11/13 11:49
Antimony	< .02	mg/l			WG650102	03/11/13 11:49
Arsenic	< .02	mg/l			WG650102	03/11/13 11:49
Cadmium	< .005	mg/l			WG650102	03/11/13 11:49
Chromium	< .01	mg/l			WG650102	03/11/13 11:49
Copper	< .02	mg/l			WG650102	03/11/13 11:49
Manganese	< .01	mg/l			WG650102	03/11/13 11:49
Nickel	< .02	mg/l			WG650102	03/11/13 11:49
Silver	< .01	mg/l			WG650102	03/11/13 11:49
Zinc	< .03	mg/l			WG650102	03/11/13 11:49
Gasoline Range Organics-NWTPH a,a,a-Trifluorotoluene(FID)	< .1	mg/l			WG639996	03/08/13 15:25
		% Rec.	103.6	62-128	WG639996	03/08/13 15:25
Lead	< .005	mg/l			WG650102	03/11/13 12:38
Suspended Solids	< 1	mg/l			WG650114	03/13/13 10:03
1-Methylnaphthalene	< .00025	mg/l			WG640051	03/13/13 09:39
2-Chloronaphthalene	< .00005	mg/l			WG640051	03/13/13 09:39
2-Methylnaphthalene	< .00025	mg/l			WG640051	03/13/13 09:39
Acenaphthene	< .00005	mg/l			WG640051	03/13/13 09:39
Acenaphthylene	< .00005	mg/l			WG640051	03/13/13 09:39
Anthracene	< .00005	mg/l			WG640051	03/13/13 09:39
Benzo(a)anthracene	< .00005	mg/l			WG640051	03/13/13 09:39
Benzo(a)pyrene	< .00005	mg/l			WG640051	03/13/13 09:39
Benzo(b)fluoranthene	< .00005	mg/l			WG640051	03/13/13 09:39
Benzo(g,h,i)perylene	< .00005	mg/l			WG640051	03/13/13 09:39
Benzo(k)fluoranthene	< .00005	mg/l			WG640051	03/13/13 09:39
Chrysene	< .00005	mg/l			WG640051	03/13/13 09:39
Dibenz(a,h)anthracene	< .00005	mg/l			WG640051	03/13/13 09:39
Fluoranthene	< .00005	mg/l			WG640051	03/13/13 09:39
Fluorene	< .00005	mg/l			WG640051	03/13/13 09:39
Indeno(1,2,3-cd)pyrene	< .00005	mg/l			WG640051	03/13/13 09:39
Naphthalene	< .00025	mg/l			WG640051	03/13/13 09:39
Phenanthrene	< .00005	mg/l			WG640051	03/13/13 09:39
Pyrene	< .00005	mg/l			WG640051	03/13/13 09:39
2-Fluorobiphenyl		% Rec.	118.0	64.4-143	WG640051	03/13/13 09:39

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

SLR International Corp. - West Linn, OR
Elisa Wheeler
1800 Blankenship Road, Suite 440

West Linn, OR 97068

Quality Assurance Report
Level II

L623684

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

March 19, 2013

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Nitrobenzene-d5		% Rec.	126.0	61.3-162		03/13/13 09:39
p-Terphenyl-d14		% Rec.	123.0	55.3-145		03/13/13 09:39
Diesel Range Organics (DRO)	< .1	mg/l			WG640052	03/13/13 16:37
Residual Range Organics (RRO)	< .25	mg/l			WG640052	03/13/13 16:37
o-Terphenyl		% Rec.	74.00	50-150	WG640052	03/13/13 16:37
TOC (Total Organic Carbon)	< 1	mg/l			WG639883	03/15/13 13:00
PCB 1016	< .0005	mg/l			WG650848	03/18/13 10:20
PCB 1221	< .0005	mg/l			WG650848	03/18/13 10:20
PCB 1232	< .0005	mg/l			WG650848	03/18/13 10:20
PCB 1242	< .0005	mg/l			WG650848	03/18/13 10:20
PCB 1248	< .0005	mg/l			WG650848	03/18/13 10:20
PCB 1254	< .0005	mg/l			WG650848	03/18/13 10:20
PCB 1260	< .0005	mg/l			WG650848	03/18/13 10:20
Decachlorobiphenyl		% Rec.	68.30	10-141	WG650848	03/18/13 10:20
Tetrachloro-m-xylene		% Rec.	83.00	10-125	WG650848	03/18/13 10:20

Analyte	Units	Result	Duplicate		RPD	Limit	Ref Samp	Batch
			Duplicate	RPD				
Mercury	mg/l	0	0.0000259	6.69	20		L623695-03	WG639968
Aluminum	mg/l	0	0	0	20		L623912-06	WG650102
Antimony	mg/l	0	0	0	20		L623912-06	WG650102
Arsenic	mg/l	0	0	0	20		L623912-06	WG650102
Cadmium	mg/l	0	0	0	20		L623912-06	WG650102
Chromium	mg/l	0	0	0	20		L623912-06	WG650102
Copper	mg/l	0	0.000600	NA	20		L623912-06	WG650102
Manganese	mg/l	0	0.000800	NA	20		L623912-06	WG650102
Nickel	mg/l	0	0	0	20		L623912-06	WG650102
Silver	mg/l	0	0	0	20		L623912-06	WG650102
Zinc	mg/l	0	0.00160	NA	20		L623912-06	WG650102
Lead	mg/l	0	0	0	20		L623912-06	WG650102
Suspended Solids	mg/l	2800	2780	0.722	5		L623560-03	WG650114
Suspended Solids	mg/l	230.	214.	8.07*	5		L623684-02	WG650114
TOC (Total Organic Carbon)	mg/l	4.50	4.90	8.96	20		L623412-01	WG639883
TOC (Total Organic Carbon)	mg/l	3.30	2.70	19.4	20		L623707-02	WG639883

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Mercury	mg/l	.003	0.00295	98.3	85-115	WG639968
Benzylbutyl phthalate	mg/l	.01	0.00844	84.4	10-178	WG640054
Bis(2-ethylhexyl)phthalate	mg/l	.01	0.00898	89.8	42-191	WG640054
Di-n-butyl phthalate	mg/l	.01	0.00809	80.9	33-175	WG640054
Di-n-octyl phthalate	mg/l	.01	0.00817	81.7	40-170	WG640054
Diethyl phthalate	mg/l	.01	0.00806	80.6	10-182	WG640054
Dimethyl phthalate	mg/l	.01	0.00831	83.1	10-165	WG640054
2,4,6-Tribromophenol				72.90	16-147	WG640054

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

SLR International Corp. - West Linn, OR
Elisa Wheeler
1800 Blankenship Road, Suite 440

West Linn, OR 97068

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report
Level II

L623684

March 19, 2013

Analyte	Units	Laboratory Control Known Val	Sample Result	% Rec	Limit	Batch
2-Fluorobiphenyl				68.10	29-127	
2-Fluorophenol				38.80	10-75	
Nitrobenzene-d5				65.40	17-119	
Phenol-d5				28.30	10-63	
p-Terphenyl-d14				79.20	40-174	
Aluminum	mg/l	1.11	1.10	99.1	85-115	WG650102
Antimony	mg/l	1.11	1.10	99.1	85-115	WG650102
Arsenic	mg/l	1.11	1.12	101.	85-115	WG650102
Cadmium	mg/l	1.11	1.13	102.	85-115	WG650102
Chromium	mg/l	1.11	1.18	106.	85-115	WG650102
Copper	mg/l	1.11	1.08	97.3	85-115	WG650102
Manganese	mg/l	1.11	1.10	99.1	85-115	WG650102
Nickel	mg/l	1.11	1.07	96.4	85-115	WG650102
Silver	mg/l	1.11	1.03	92.8	85-115	WG650102
Zinc	mg/l	1.11	1.11	100.	85-115	WG650102
Gasoline Range Organics-NWTPH	mg/l	5.5	4.62	84.0	70-124	WG639996
a,a,a-Trifluorotoluene(FID)				105.3	62-128	WG639996
Lead	mg/l	1.11	1.10	99.1	85-115	WG650102
Suspended Solids	mg/l	773	872.	113.	85-115	WG650114
1-Methylnaphthalene	mg/l	.002	0.00240	120.	71.2-137	WG640051
2-Chloronaphthalene	mg/l	.002	0.00240	120.	81.1-129	WG640051
2-Methylnaphthalene	mg/l	.002	0.00240	120.	69.8-134	WG640051
Acenaphthene	mg/l	.002	0.00242	121.	80.8-128	WG640051
Acenaphthylene	mg/l	.002	0.00222	111.	77.2-132	WG640051
Anthracene	mg/l	.002	0.00245	122.	78.4-136	WG640051
Benz(a)anthracene	mg/l	.002	0.00243	122.	69.2-141	WG640051
Benz(a)pyrene	mg/l	.002	0.00240	120.	71.1-135	WG640051
Benz(b)fluoranthene	mg/l	.002	0.00231	115.	69.5-140	WG640051
Benz(g,h,i)perylene	mg/l	.002	0.00231	115.	64.6-138	WG640051
Benz(k)fluoranthene	mg/l	.002	0.00244	122.	69.3-144	WG640051
Chrysene	mg/l	.002	0.00233	117.	75.6-138	WG640051
Dibenz(a,h)anthracene	mg/l	.002	0.00228	114.	64.1-139	WG640051
Fluoranthene	mg/l	.002	0.00244	122.	78.6-135	WG640051
Fluorene	mg/l	.002	0.00225	113.	78.3-131	WG640051
Indeno(1,2,3-cd)pyrene	mg/l	.002	0.00238	119.	64.8-140	WG640051
Naphthalene	mg/l	.002	0.00239	120.	80.2-126	WG640051
Phenanthrene	mg/l	.002	0.00238	119.	79.6-130	WG640051
Pyrene	mg/l	.002	0.00252	126.	76.6-134	WG640051
2-Fluorobiphenyl				117.0	64.4-143	WG640051
Nitrobenzene-d5				117.0	61.3-162	WG640051
p-Terphenyl-d14				122.0	55.3-145	WG640051
Diesel Range Organics (DRO)	mg/l	.75	0.670	89.3	50-150	WG640052
Residual Range Organics (RRO)	mg/l	.75	0.738	98.5	50-150	WG640052
				76.70	50-150	WG640052
TOC (Total Organic Carbon)	mg/l	75	69.3	92.4	85-115	WG639883

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

SLR International Corp. - West Linn, OR
Elisa Wheeler
1800 Blankenship Road, Suite 440

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

West Linn, OR 97068

Quality Assurance Report
Level II

L623684

March 19, 2013

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch		
		Known Val	Result					
PCB 1016	mg/l	.0005	0.000397	79.5	32-126	WG650848		
PCB 1260	mg/l	.0005	0.000544	109.	58-128	WG650848		
Decachlorobiphenyl				103.0	10-141	WG650848		
Tetrachloro-m-xylene				101.0	10-125	WG650848		
Analyte	Units	Laboratory Control Sample Duplicate			RPD	Batch		
		Result	Ref	%Rec	Limit			
Benzylbutyl phthalate	mg/l	0.00951	0.00844	95.0	10-178	WG640054		
Bis(2-ethylhexyl)phthalate	mg/l	0.0108	0.00898	108.	42-191	WG640054		
Di-n-butyl phthalate	mg/l	0.00928	0.00809	93.0	33-175	WG640054		
Di-n-octyl phthalate	mg/l	0.00922	0.00817	92.0	40-170	WG640054		
Diethyl phthalate	mg/l	0.00950	0.00806	95.0	10-182	WG640054		
Dimethyl phthalate	mg/l	0.00947	0.00831	95.0	10-165	WG640054		
2,4,6-Tribromophenol				83.90	16-147	WG640054		
2-Fluorobiphenyl				78.20	29-127	WG640054		
2-Fluorophenol				40.90	10-75	WG640054		
Nitrobenzene-d5				72.20	17-119	WG640054		
Phenol-d5				32.50	10-63	WG640054		
p-Terphenyl-d14				90.90	40-174	WG640054		
Gasoline Range Organics-NWTPH a,a,a-Trifluorotoluene(FID)	mg/l	4.68	4.62	85.0	70-124	WG639996		
				105.4	62-128	WG639996		
Suspended Solids	mg/l	848.	872.	110.	85-115	2.79	5	WG650114
1-Methylnaphthalene	mg/l	0.00250	0.00240	125.	71.2-137	4.17	20	WG640051
2-Chloronaphthalene	mg/l	0.00243	0.00240	122.	81.1-129	1.46	20	WG640051
2-Methylnaphthalene	mg/l	0.00249	0.00240	124.	69.8-134	3.80	20	WG640051
Acenaphthene	mg/l	0.00249	0.00242	125.	80.8-128	3.08	20	WG640051
Acenaphthylene	mg/l	0.00239	0.00222	119.	77.2-132	7.30	20	WG640051
Anthracene	mg/l	0.00245	0.00245	123.	78.4-136	0.190	20	WG640051
Benzo(a)anthracene	mg/l	0.00246	0.00243	123.	69.2-141	0.930	20	WG640051
Benzo(a)pyrene	mg/l	0.00247	0.00240	123.	71.1-135	2.88	20	WG640051
Benzo(b)fluoranthene	mg/l	0.00229	0.00231	114.	69.5-140	0.910	20	WG640051
Benzo(g,h,i)perylene	mg/l	0.00239	0.00231	119.	64.6-138	3.56	20	WG640051
Benzo(k)fluoranthene	mg/l	0.00204	0.00244	102.	69.3-144	18.2	20	WG640051
Chrysene	mg/l	0.00237	0.00233	118.	75.6-138	1.62	20	WG640051
Dibenz(a,h)anthracene	mg/l	0.00239	0.00228	120.	64.1-139	4.89	20	WG640051
Fluoranthene	mg/l	0.00243	0.00244	122.	78.6-135	0.240	20	WG640051
Fluorene	mg/l	0.00252	0.00225	126.	78.3-131	11.1	20	WG640051
Indeno(1,2,3-cd)pyrene	mg/l	0.00255	0.00238	127.	64.8-140	6.92	20	WG640051
Naphthalene	mg/l	0.00246	0.00239	123.	80.2-126	2.71	20	WG640051
Phenanthrene	mg/l	0.00241	0.00238	120.	79.6-130	1.20	20	WG640051
Pyrene	mg/l	0.00259	0.00252	130.	76.6-134	2.88	20	WG640051
2-Fluorobiphenyl				120.0	64.4-143	WG640051		
Nitrobenzene-d5				111.0	61.3-162	WG640051		
p-Terphenyl-d14				120.0	55.3-145	WG640051		
Diesel Range Organics (DRO)	mg/l	0.702	0.670	94.0	50-150	4.67	20	WG640052
Residual Range Organics (RRO)	mg/l	0.778	0.738	104.	50-150	5.23	20	WG640052
				77.20	50-150			WG640052
TOC (Total Organic Carbon)	mg/l	68.6	69.3	91.0	85-115	1.02	20	WG639883

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

SLR International Corp. - West Linn, OR
Elisa Wheeler
1800 Blankenship Road, Suite 440
West Linn, OR 97068

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report
Level II

L623684

March 19, 2013

Analyte	Units	Laboratory Control		%Rec	Limit	RPD	Limit	Batch
		Result	Ref					
PCB 1016	mg/l	0.000412	0.000397	82.0	32-126	3.68	22	WG650848
PCB 1260	mg/l	0.000554	0.000544	111.	58-128	1.98	20	WG650848
Decachlorobiphenyl				104.0	10-141			WG650848
Tetrachloro-m-xylene				88.80	10-125			WG650848

Analyte	Units	Matrix Spike			% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res	TV				
Mercury	mg/l	0.00288	0.0000259	.003	95.0	80-120	L623695-03	WG639968
Aluminum	mg/l	1.15	0	1.11	104.	75-125	L623912-06	WG650102
Antimony	mg/l	1.11	0	1.11	100.	75-125	L623912-06	WG650102
Arsenic	mg/l	1.12	0	1.11	101.	75-125	L623912-06	WG650102
Cadmium	mg/l	1.13	0	1.11	102.	75-125	L623912-06	WG650102
Chromium	mg/l	1.19	0	1.11	107.	75-125	L623912-06	WG650102
Copper	mg/l	1.08	0.000600	1.11	97.2	75-125	L623912-06	WG650102
Manganese	mg/l	1.10	0.000800	1.11	99.0	75-125	L623912-06	WG650102
Nickel	mg/l	1.08	0	1.11	97.3	75-125	L623912-06	WG650102
Silver	mg/l	1.03	0	1.11	92.8	75-125	L623912-06	WG650102
Zinc	mg/l	1.12	0.00160	1.11	101.	75-125	L623912-06	WG650102
Gasoline Range Organics-NWTPH a,a,a-Trifluorotoluene(FID)	mg/l	3.98	0	5.5	72.3	58-122	L623673-01	WG639996
					104.9	62-128		
Lead	mg/l	1.10	0	1.11	99.1	75-125	L623912-06	WG650102
TOC (Total Organic Carbon)	mg/l	72.2	25.0	50	94.4	80-120	L623422-03	WG639883

Analyte	Units	Matrix Spike			%Rec	Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec						
Mercury	mg/l	0.00300	0.00288	99.2		80-120	4.31	20	L623695-03	WG639968
Aluminum	mg/l	1.25	1.15	113.		75-125	8.33	20	L623912-06	WG650102
Antimony	mg/l	1.14	1.11	103.		75-125	2.67	20	L623912-06	WG650102
Arsenic	mg/l	1.13	1.12	102.		75-125	0.889	20	L623912-06	WG650102
Cadmium	mg/l	1.15	1.13	104.		75-125	1.75	20	L623912-06	WG650102
Chromium	mg/l	1.22	1.19	110.		75-125	2.49	20	L623912-06	WG650102
Copper	mg/l	1.12	1.08	101.		75-125	3.64	20	L623912-06	WG650102
Manganese	mg/l	1.13	1.10	102.		75-125	2.69	20	L623912-06	WG650102
Nickel	mg/l	1.09	1.08	98.2		75-125	0.922	20	L623912-06	WG650102
Silver	mg/l	1.07	1.03	96.4		75-125	3.81	20	L623912-06	WG650102
Zinc	mg/l	1.15	1.12	103.		75-125	2.64	20	L623912-06	WG650102
Gasoline Range Organics-NWTPH a,a,a-Trifluorotoluene(FID)	mg/l	4.52	3.98	82.1		58-122	12.8	20	L623673-01	WG639996
				105.3		62-128				
Lead	mg/l	1.08	1.10	97.3		75-125	1.83	20	L623912-06	WG650102

TOC (Total Organic Carbon) mg/l 77.9 72.2 106. 80-120 7.59 20 L623422-03 WG639883

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

**YOUR LAB OF CHOICE**

SLR International Corp. - West Linn, OR
Elisa Wheeler
1800 Blankenship Road, Suite 440
West Linn, OR 97068

**Quality Assurance Report
Level II**

L623684

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

March 19, 2013

Serial Dilution**Batch number /Run number / Sample number cross reference**

WG639968: R2574837: L623684-01 02 03
WG640054: R2575667: L623684-01 02 03
WG650102: R2576621: L623684-01 02 03
WG639996: R2576624: L623684-01 02 03
WG650114: R2578539: L623684-01 02 03
WG640051: R2579897: L623684-01 02 03
WG640052: R2580398 R2584437: L623684-01 02 03
WG639883: R2583878: L623684-01 02 03
WG650848: R2584980: L623684-01 02 03

* * Calculations are performed prior to rounding of reported values.

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

SLR International Corp. - West Linn, OR
Elisa Wheeler
1800 Blankenship Road, Suite 440
West Linn, OR 97068

Quality Assurance Report
Level II

L623684

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

March 19, 2013

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

SLR International Corp. - West
Linn, OR
 1800 Blankenship Road, Suite 440
 West Linn, OR 97068

Billing information:

Accounts Payable
 1800 Blankenship Rd, Ste 440
 West Linn, OR 97068

Analysis/Container/Preservative

Chain of Custody

Page ____ of ____



12065 Lebanon Road
 Mt. Juliet, TN 37122

Phone: (800) 767-5859
 Phone: (615) 758-5858
 Fax: (615) 758-5859

D089

Report to: Elisa Wheeler

Email: ewheeler@slrconsulting.com;

Project Description: Portland SCE

City/State Collected

WILMINGTON, NC

Phone: (503) 723-4423
 FAX:

Client Project #: SW SAMPLING

Lab Project #: SLRWLOR-WHEELER

Collected by (print): NATHANIEL WHEELER

Site/Facility ID#: P.O. #:

Collected by (signature):

N. Wheeler

Immediately Packed on Ice N Y X

Rush? (Lab MUST Be Notified)

- Same Day 200%
- Next Day 100%
- Two Day 50%
- Three Day 25%

Date Results Needed

Email? No <input checked="" type="checkbox"/> Yes <input type="checkbox"/>	FAX? No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>
No. of Cntrs	

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	8082 100ml Amb-NoPres	8270PHTH 100ml Amb-NoPres	Metals 500mlHDPE-HNO3	NWTPHDX 100ml Amb-HCl	NWTPHGX 40mlAmb HCl	PAHSIML VID 40mlAmb-NoPres-WT	TOC 250mlAmb-Septa-HCl	TSS 1L-HDPE NoPres
C13-CAST	GR	GW		3/6/13	9:30	14	X X X X X X X X X X X X						
C13-11	GR	GW			10:15	14	X X X X X X X X X X X X						
C13-3	GR	GW			11:00	14	X X X X X X X X X X X X						
		GW				14	X X X X X X X X X X X X						

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

pH _____ Temp _____

Remarks: Metals = Al, Sb, As, Cd, Cr, Cu, Pb, Mn, Hg, Ni, Ag, Zn

Flow _____ Other _____

554702331091

Relinquished by: (Signature)	Date: 3/6/13	Time: 12:00	Received by: (Signature)	Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition: <input checked="" type="checkbox"/> TD
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 36.5 Bottles Received: 42	COC Seal Intact: Y N NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3/7/13 Time: 0930	pH Checked: 62 NCF: ✓



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859
Tax I.D. 62-0814289
Est. 1970

Chris Kramer
SLR International Corp. - West Linn, OR
1800 Blankenship Road, Suite 440
West Linn, OR 97068

Report Summary

Friday January 03, 2014

Report Number: L675442

Samples Received: 12/21/13

Client Project: SW SAMPLING

Description: Portland SCE

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:


Jared Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Chris Kramer
SLR International Corp. - West Linn
1800 Blankenship Road, Suite 440
West Linn, OR 97068

January 03, 2014

Date Received : December 21, 2013
Description : Portland SCE
Sample ID : CB-11
Collected By : C. Kramer
Collection Date : 12/20/13 15:00

ESC Sample # : L675442-01

Site ID :

Project # : SW SAMPLING

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
TOC (Total Organic Carbon)	4500	100	1000	ug/l		9060A	01/03/14	1
Suspended Solids	230000	350	2500	ug/l		2540 D-	12/24/13	1
Mercury	0.088	0.049	0.20	ug/l	J	7470A	12/27/13	1
Aluminum	20000	35.	100	ug/l		6010B	12/26/13	1
Antimony	U	7.5	20.	ug/l		6010B	12/26/13	1
Arsenic	14.	6.5	20.	ug/l	J	6010B	12/26/13	1
Cadmium	2.0	0.70	5.0	ug/l	J	6010B	12/26/13	1
Chromium	30.	1.4	10.	ug/l		6010B	12/26/13	1
Copper	96.	5.3	20.	ug/l		6010B	12/26/13	1
Lead	53.	1.9	5.0	ug/l		6010B	12/26/13	1
Manganese	610	1.2	10.	ug/l		6010B	12/26/13	1
Nickel	42.	4.9	20.	ug/l		6010B	12/26/13	1
Silver	U	2.8	10.	ug/l		6010B	12/26/13	1
Zinc	780	5.9	30.	ug/l		6010B	12/26/13	1
Gasoline Range Organics-NWTPH	U	32.	100	ug/l		NWTPHGX	12/28/13	1
Surrogate Recovery				% Rec.		NWTPHGX	12/28/13	1
a,a,a-Trifluorotoluene(FID)	98.1			% Rec.		NWTPHGX	12/28/13	1
Diesel Range Organics (DRO)	810	270	830	ug/l	J	NWTPHDX	12/31/13	8.33
Residual Range Organics (RRO)	750	690	2100	ug/l	J	NWTPHDX	12/31/13	8.33
Surrogate Recovery				% Rec.		NWTPHDX	12/31/13	8.33
o-Terphenyl	91.1			% Rec.				
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.076	0.50	ug/l		8270C-S	12/28/13	10
Acenaphthene	U	0.082	0.50	ug/l		8270C-S	12/28/13	10
Acenaphthylene	U	0.068	0.50	ug/l		8270C-S	12/28/13	10
Benzo(a)anthracene	0.17	0.12	0.50	ug/l	J	8270C-S	12/28/13	10
Benzo(a)pyrene	U	0.12	0.50	ug/l		8270C-S	12/28/13	10
Benzo(b)fluoranthene	U	0.14	0.50	ug/l		8270C-S	12/28/13	10
Benzo(g,h,i)perylene	0.14	0.11	0.50	ug/l	J	8270C-S	12/28/13	10
Benzo(k)fluoranthene	U	0.14	0.50	ug/l		8270C-S	12/28/13	10
Chrysene	U	0.11	0.50	ug/l		8270C-S	12/28/13	10
Dibenz(a,h)anthracene	U	0.040	0.50	ug/l		8270C-S	12/28/13	10
Fluoranthene	0.19	0.16	0.50	ug/l	J	8270C-S	12/28/13	10
Fluorene	U	0.085	0.50	ug/l		8270C-S	12/28/13	10
Indeno(1,2,3-cd)pyrene	U	0.15	0.50	ug/l		8270C-S	12/28/13	10
Naphthalene	0.27	0.20	2.5	ug/l	J	8270C-S	12/28/13	10
Phenanthrene	0.22	0.082	0.50	ug/l	J	8270C-S	12/28/13	10

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

MDL = Minimum Detection Limit = LOD = TRRP SDL

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 01/03/14 13:08 Printed: 01/03/14 13:22

L675442-01 (NWTPHDX) - Cannot run at a lower dilution, dilution due to extractions process. Dilution due L675442-01 (PAHSIMLVID) - Dilution due to matrix



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Chris Kramer
SLR International Corp. - West Linn
1800 Blankenship Road, Suite 440
West Linn, OR 97068

January 03, 2014

Date Received : December 21, 2013
Description : Portland SCE

ESC Sample # : L675442-01

Sample ID : CB-11

Site ID :

Collected By : C. Kramer
Collection Date : 12/20/13 15:00

Project # : SW SAMPLING

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Pyrene	0.36	0.12	0.50	ug/l	J	8270C-S	12/28/13	10
1-Methylnaphthalene	U	0.082	2.5	ug/l		8270C-S	12/28/13	10
2-Methylnaphthalene	U	0.090	2.5	ug/l		8270C-S	12/28/13	10
2-Chloronaphthalene	U	0.065	2.5	ug/l		8270C-S	12/28/13	10
Surrogate Recovery								
Nitrobenzene-d5	111.			% Rec.		8270C-S	12/28/13	10
2-Fluorobiphenyl	103.			% Rec.		8270C-S	12/28/13	10
p-Terphenyl-d14	97.5			% Rec.		8270C-S	12/28/13	10
Polychlorinated Biphenyls								
PCB 1016	U	0.10	0.50	ug/l		8082 A	12/26/13	1
PCB 1221	U	0.073	0.50	ug/l		8082 A	12/26/13	1
PCB 1232	U	0.042	0.50	ug/l		8082 A	12/26/13	1
PCB 1242	U	0.047	0.50	ug/l		8082 A	12/26/13	1
PCB 1248	U	0.086	0.50	ug/l		8082 A	12/26/13	1
PCB 1254	U	0.047	0.50	ug/l		8082 A	12/26/13	1
PCB 1260	U	0.12	0.50	ug/l		8082 A	12/26/13	1
PCBs Surrogates								
Decachlorobiphenyl	31.6			% Rec.		8082 A	12/26/13	1
Tetrachloro-m-xylene	52.2			% Rec.		8082 A	12/26/13	1
Total Phthalates	3.6		6.0	ug/l	J	8270 D	12/25/13	1
Bis(2-ethylhexyl)phthalate	3.3	0.71	3.0	ug/l		8270 D	12/25/13	1
Benzylbutyl phthalate	U	0.28	3.0	ug/l		8270 D	12/25/13	1
Diethyl phthalate	U	0.28	3.0	ug/l		8270 D	12/25/13	1
Dimethyl phthalate	U	0.28	3.0	ug/l		8270 D	12/25/13	1
Di-n-butyl phthalate	0.38	0.27	3.0	ug/l	J	8270 D	12/25/13	1
Di-n-octyl phthalate	U	0.28	3.0	ug/l		8270 D	12/25/13	1
Surrogate Recovery								
2-Fluorophenol	30.8			% Rec.		8270 D	12/25/13	1
Phenol-d5	20.6			% Rec.		8270 D	12/25/13	1
Nitrobenzene-d5	82.6			% Rec.		8270 D	12/25/13	1
2-Fluorobiphenyl	96.7			% Rec.		8270 D	12/25/13	1
2,4,6-Tribromophenol	79.2			% Rec.		8270 D	12/25/13	1
p-Terphenyl-d14	102.			% Rec.		8270 D	12/25/13	1

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

MDL = Minimum Detection Limit = LOD = TRRP SDL

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 01/03/14 13:08 Printed: 01/03/14 13:22

L675442-01 (NWTPHDX) - Cannot run at a lower dilution, dilution due to extractions process. Dilution due
L675442-01 (PAHSIMLVID) - Dilution due to matrix



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Chris Kramer
SLR International Corp. - West Linn
1800 Blankenship Road, Suite 440
West Linn, OR 97068

January 03, 2014

Date Received : December 21, 2013
Description : Portland SCE
Sample ID : CB-3
Collected By : C. Kramer
Collection Date : 12/20/13 15:15

ESC Sample # : L675442-02

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
TOC (Total Organic Carbon)	3700	100	1000	ug/l		9060A	01/03/14	1
Suspended Solids	420000	350	2500	ug/l		2540 D-	12/24/13	1
Mercury	0.080	0.049	0.20	ug/l	J	7470A	12/27/13	1
Aluminum	23000	35.	100	ug/l		6010B	12/26/13	1
Antimony	U	7.5	20.	ug/l		6010B	12/26/13	1
Arsenic	15.	6.5	20.	ug/l	J	6010B	12/26/13	1
Cadmium	1.9	0.70	5.0	ug/l	J	6010B	12/26/13	1
Chromium	35.	1.4	10.	ug/l		6010B	12/26/13	1
Copper	95.	5.3	20.	ug/l		6010B	12/26/13	1
Lead	46.	1.9	5.0	ug/l		6010B	12/26/13	1
Manganese	1100	1.2	10.	ug/l		6010B	12/26/13	1
Nickel	41.	4.9	20.	ug/l		6010B	12/26/13	1
Silver	U	2.8	10.	ug/l		6010B	12/26/13	1
Zinc	590	5.9	30.	ug/l		6010B	12/26/13	1
Gasoline Range Organics-NWTPH	U	32.	100	ug/l		NWTPHGX	12/28/13	1
Surrogate Recovery				% Rec.		NWTPHGX	12/28/13	1
a,a,a-Trifluorotoluene(FID)	98.8			% Rec.		NWTPHGX	12/28/13	1
Diesel Range Organics (DRO)	490	240	710	ug/l	J	NWTPHDX	12/31/13	7.14
Residual Range Organics (RRO)	850	590	1800	ug/l	J	NWTPHDX	12/31/13	7.14
Surrogate Recovery				% Rec.		NWTPHDX	12/31/13	7.14
o-Terphenyl	85.5			% Rec.				
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.076	0.50	ug/l		8270C-S	12/28/13	10
Acenaphthene	U	0.082	0.50	ug/l		8270C-S	12/28/13	10
Acenaphthylene	U	0.068	0.50	ug/l		8270C-S	12/28/13	10
Benzo(a)anthracene	0.14	0.12	0.50	ug/l	J	8270C-S	12/28/13	10
Benzo(a)pyrene	U	0.12	0.50	ug/l		8270C-S	12/28/13	10
Benzo(b)fluoranthene	U	0.14	0.50	ug/l		8270C-S	12/28/13	10
Benzo(g,h,i)perylene	0.15	0.11	0.50	ug/l	J	8270C-S	12/28/13	10
Benzo(k)fluoranthene	U	0.14	0.50	ug/l		8270C-S	12/28/13	10
Chrysene	U	0.11	0.50	ug/l		8270C-S	12/28/13	10
Dibenz(a,h)anthracene	U	0.040	0.50	ug/l		8270C-S	12/28/13	10
Fluoranthene	U	0.16	0.50	ug/l		8270C-S	12/28/13	10
Fluorene	U	0.085	0.50	ug/l		8270C-S	12/28/13	10
Indeno(1,2,3-cd)pyrene	U	0.15	0.50	ug/l		8270C-S	12/28/13	10
Naphthalene	0.32	0.20	2.5	ug/l	J	8270C-S	12/28/13	10
Phenanthrene	0.11	0.082	0.50	ug/l	J	8270C-S	12/28/13	10

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

MDL = Minimum Detection Limit = LOD = TRRP SDL

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 01/03/14 13:08 Printed: 01/03/14 13:22

L675442-02 (NWTPHDX) - Cannot run at a lower dilution, dilution due to extractions process. Dilution due
L675442-02 (PAHSIMLVID) - Dilution due to matrix



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Chris Kramer
SLR International Corp. - West Linn
1800 Blankenship Road, Suite 440
West Linn, OR 97068

January 03, 2014

Date Received : December 21, 2013
Description : Portland SCE

ESC Sample # : L675442-02

Sample ID : CB-3

Site ID :

Collected By : C. Kramer
Collection Date : 12/20/13 15:15

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Pyrene	0.23	0.12	0.50	ug/l	J	8270C-S	12/28/13	10
1-Methylnaphthalene	U	0.082	2.5	ug/l		8270C-S	12/28/13	10
2-Methylnaphthalene	U	0.090	2.5	ug/l		8270C-S	12/28/13	10
2-Chloronaphthalene	U	0.065	2.5	ug/l		8270C-S	12/28/13	10
Surrogate Recovery								
Nitrobenzene-d5	141.			% Rec.		8270C-S	12/28/13	10
2-Fluorobiphenyl	132.			% Rec.		8270C-S	12/28/13	10
p-Terphenyl-d14	128.			% Rec.		8270C-S	12/28/13	10
Polychlorinated Biphenyls								
PCB 1016	U	0.10	0.50	ug/l		8082 A	12/26/13	1
PCB 1221	U	0.073	0.50	ug/l		8082 A	12/26/13	1
PCB 1232	U	0.042	0.50	ug/l		8082 A	12/26/13	1
PCB 1242	U	0.047	0.50	ug/l		8082 A	12/26/13	1
PCB 1248	U	0.086	0.50	ug/l		8082 A	12/26/13	1
PCB 1254	U	0.047	0.50	ug/l		8082 A	12/26/13	1
PCB 1260	U	0.12	0.50	ug/l		8082 A	12/26/13	1
PCBs Surrogates								
Decachlorobiphenyl	40.4			% Rec.		8082 A	12/26/13	1
Tetrachloro-m-xylene	47.8			% Rec.		8082 A	12/26/13	1
Total Phthalates	2.8		6.0	ug/l	J	8270 D	12/25/13	1
Bis(2-ethylhexyl)phthalate	2.3	0.71	3.0	ug/l	J	8270 D	12/25/13	1
Benzylbutyl phthalate	U	0.28	3.0	ug/l		8270 D	12/25/13	1
Diethyl phthalate	U	0.28	3.0	ug/l		8270 D	12/25/13	1
Dimethyl phthalate	U	0.28	3.0	ug/l		8270 D	12/25/13	1
Di-n-butyl phthalate	0.44	0.27	3.0	ug/l	J	8270 D	12/25/13	1
Di-n-octyl phthalate	U	0.28	3.0	ug/l		8270 D	12/25/13	1
Surrogate Recovery								
2-Fluorophenol	38.8			% Rec.		8270 D	12/25/13	1
Phenol-d5	23.5			% Rec.		8270 D	12/25/13	1
Nitrobenzene-d5	93.3			% Rec.		8270 D	12/25/13	1
2-Fluorobiphenyl	101.			% Rec.		8270 D	12/25/13	1
2,4,6-Tribromophenol	84.8			% Rec.		8270 D	12/25/13	1
p-Terphenyl-d14	114.			% Rec.		8270 D	12/25/13	1

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

MDL = Minimum Detection Limit = LOD = TRRP SDL

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 01/03/14 13:08 Printed: 01/03/14 13:22

L675442-02 (NWTPHDX) - Cannot run at a lower dilution, dilution due to extractions process. Dilution due
L675442-02 (PAHSIMLVID) - Dilution due to matrix

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L675442-01	WG698957	SAMP	Arsenic	R2871785	J
	WG698957	SAMP	Cadmium	R2871785	J
	WG698874	SAMP	Mercury	R2872150	J
	WG699265	SAMP	Diesel Range Organics (DRO)	R2873220	J
	WG699265	SAMP	Residual Range Organics (RRO)	R2873220	J
	WG698959	SAMP	Total Phthalates	R2871963	J
	WG698959	SAMP	Di-n-butyl phthalate	R2871963	J
	WG699254	SAMP	Benzo(a)anthracene	R2872514	J
	WG699254	SAMP	Benzo(g,h,i)perylene	R2872514	J
	WG699254	SAMP	Fluoranthene	R2872514	J
	WG699254	SAMP	Naphthalene	R2872514	J
	WG699254	SAMP	Phenanthrene	R2872514	J
	WG699254	SAMP	Pyrene	R2872514	J
	WG698957	SAMP	Arsenic	R2871785	J
	WG698957	SAMP	Cadmium	R2871785	J
	WG698874	SAMP	Mercury	R2872150	J
	WG699265	SAMP	Diesel Range Organics (DRO)	R2873220	J
L675442-02	WG699265	SAMP	Residual Range Organics (RRO)	R2873220	J
	WG698959	SAMP	Total Phthalates	R2871963	J
	WG698959	SAMP	Bis(2-ethylhexyl)phthalate	R2871963	J
	WG698959	SAMP	Di-n-butyl phthalate	R2871963	J
	WG699254	SAMP	Benzo(a)anthracene	R2872514	J
	WG699254	SAMP	Benzo(g,h,i)perylene	R2872514	J
	WG699254	SAMP	Naphthalene	R2872514	J
	WG699254	SAMP	Phenanthrene	R2872514	J
	WG699254	SAMP	Pyrene	R2872514	J

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



YOUR LAB OF CHOICE

SLR International Corp. - West Linn, OR
Chris Kramer
1800 Blankenship Road, Suite 440

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

West Linn, OR 97068

Quality Assurance Report
Level II

L675442

January 03, 2014

Analyte	Result	Laboratory Blank Units	% Rec	Limit	Batch	Date Analyzed
Suspended Solids	< 2.5	mg/l			WG698764	12/24/13 10:14
Aluminum	< .1	mg/l			WG698957	12/26/13 06:21
Antimony	< .02	mg/l			WG698957	12/26/13 06:21
Arsenic	< .02	mg/l			WG698957	12/26/13 06:21
Cadmium	< .005	mg/l			WG698957	12/26/13 06:21
Chromium	< .01	mg/l			WG698957	12/26/13 06:21
Copper	< .02	mg/l			WG698957	12/26/13 06:21
Lead	< .005	mg/l			WG698957	12/26/13 06:21
Manganese	< .01	mg/l			WG698957	12/26/13 06:21
Nickel	< .02	mg/l			WG698957	12/26/13 06:21
Silver	< .01	mg/l			WG698957	12/26/13 06:21
Zinc	< .03	mg/l			WG698957	12/26/13 06:21
PCB 1016	< .0005	mg/l			WG698811	12/26/13 08:20
PCB 1221	< .0005	mg/l			WG698811	12/26/13 08:20
PCB 1232	< .0005	mg/l			WG698811	12/26/13 08:20
PCB 1242	< .0005	mg/l			WG698811	12/26/13 08:20
PCB 1248	< .0005	mg/l			WG698811	12/26/13 08:20
PCB 1254	< .0005	mg/l			WG698811	12/26/13 08:20
PCB 1260	< .0005	mg/l			WG698811	12/26/13 08:20
Decachlorobiphenyl	% Rec.	69.70		10-156	WG698811	12/26/13 08:20
Tetrachloro-m-xylene	% Rec.	46.80		13.9-137	WG698811	12/26/13 08:20
Benzylbutyl phthalate	< .003	mg/l			WG698959	12/24/13 20:53
Bis(2-ethylhexyl)phthalate	< .003	mg/l			WG698959	12/24/13 20:53
Di-n-butyl phthalate	< .003	mg/l			WG698959	12/24/13 20:53
Di-n-octyl phthalate	< .003	mg/l			WG698959	12/24/13 20:53
Diethyl phthalate	< .003	mg/l			WG698959	12/24/13 20:53
Dimethyl phthalate	< .003	mg/l			WG698959	12/24/13 20:53
2,4,6-Tribromophenol	% Rec.	81.70		11.2-130	WG698959	12/24/13 20:53
2-Fluorobiphenyl	% Rec.	86.90		29.5-131	WG698959	12/24/13 20:53
2-Fluorophenol	% Rec.	55.40		10-77.9	WG698959	12/24/13 20:53
Nitrobenzene-d5	% Rec.	72.00		21.8-123	WG698959	12/24/13 20:53
Phenol-d5	% Rec.	29.30		5-70.1	WG698959	12/24/13 20:53
p-Terphenyl-d14	% Rec.	95.90		29.3-137	WG698959	12/24/13 20:53
Mercury	< .0002	mg/l			WG698874	12/27/13 12:34
1-Methylnaphthalene	< .00025	mg/l			WG699254	12/28/13 08:54
2-Chloronaphthalene	< .00005	mg/l			WG699254	12/28/13 08:54
2-Methylnaphthalene	< .00025	mg/l			WG699254	12/28/13 08:54
Acenaphthene	< .00005	mg/l			WG699254	12/28/13 08:54
Acenaphthylene	< .00005	mg/l			WG699254	12/28/13 08:54
Anthracene	< .00005	mg/l			WG699254	12/28/13 08:54
Benzo(a)anthracene	< .00005	mg/l			WG699254	12/28/13 08:54
Benzo(a)pyrene	< .00005	mg/l			WG699254	12/28/13 08:54
Benzo(b)fluoranthene	< .00005	mg/l			WG699254	12/28/13 08:54
Benzo(g,h,i)perylene	< .00005	mg/l			WG699254	12/28/13 08:54
Benzo(k)fluoranthene	< .00005	mg/l			WG699254	12/28/13 08:54
Chrysene	< .00005	mg/l			WG699254	12/28/13 08:54
Dibenz(a,h)anthracene	< .00005	mg/l			WG699254	12/28/13 08:54
Fluoranthene	< .00005	mg/l			WG699254	12/28/13 08:54
Fluorene	< .00005	mg/l			WG699254	12/28/13 08:54

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

SLR International Corp. - West Linn, OR
Chris Kramer
1800 Blankenship Road, Suite 440
West Linn, OR 97068

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report
Level II

L675442

January 03, 2014

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Indeno(1,2,3-cd)pyrene	< .00005	mg/l			WG699254	12/28/13 08:54
Naphthalene	< .00025	mg/l			WG699254	12/28/13 08:54
Phenanthrene	< .00005	mg/l			WG699254	12/28/13 08:54
Pyrene	< .00005	mg/l			WG699254	12/28/13 08:54
2-Fluorobiphenyl		% Rec.	127.0	64.4-143	WG699254	12/28/13 08:54
Nitrobenzene-d5		% Rec.	136.0	61.3-162	WG699254	12/28/13 08:54
p-Terphenyl-d14		% Rec.	131.0	55.3-145	WG699254	12/28/13 08:54
Gasoline Range Organics-NWTPH	< .1	mg/l			WG699269	12/28/13 16:34
a,a,a-Trifluorotoluene(FID)		% Rec.	98.20	62-128	WG699269	12/28/13 16:34
Diesel Range Organics (DRO)	< .1	mg/l			WG699265	12/30/13 21:23
Residual Range Organics (RRO)	< .25	mg/l			WG699265	12/30/13 21:23
o-Terphenyl		% Rec.	73.70	50-150	WG699265	12/30/13 21:23
TOC (Total Organic Carbon)	< 1	mg/l			WG699812	01/03/14 02:09

Analyte	Units	Result	Duplicate		RPD	Limit	Ref Samp	Batch
			Duplicate	RPD				
Suspended Solids	mg/l	922.	935.	1.35	5		L675432-01	WG698764
Aluminum	mg/l	0.180	0.221	18.0	20		L675461-01	WG698957
Antimony	mg/l	0.0	-0.00134	147.*	20		L675461-01	WG698957
Arsenic	mg/l	0.0	0.000493	74.0*	20		L675461-01	WG698957
Cadmium	mg/l	0.0	0.00121	52.0*	20		L675461-01	WG698957
Chromium	mg/l	0.0	0.000383	29.0*	20		L675461-01	WG698957
Copper	mg/l	0.0	-0.00164	186.*	20		L675461-01	WG698957
Lead	mg/l	0.0	0.000895	94.0*	20		L675461-01	WG698957
Manganese	mg/l	0.190	0.242	22.0*	20		L675461-01	WG698957
Nickel	mg/l	0.0	0.00677	83.0*	20		L675461-01	WG698957
Silver	mg/l	0.0	0.00108	260.*	20		L675461-01	WG698957
Zinc	mg/l	0.0	0.0200	15.0	20		L675461-01	WG698957
Mercury	mg/l	0.0	0.0000513	17.0	20		L675164-02	WG698874
TOC (Total Organic Carbon)	mg/l	2.39	2.70	12.2	20		L674543-80	WG699812
TOC (Total Organic Carbon)	mg/l	1.58	1.60	1.26	20		L675743-01	WG699812

Analyte	Units	Laboratory Control Sample			Limit	Batch
		Known Val	Result	% Rec		
Suspended Solids	mg/l	773	740.	95.7	85-115	WG698764
Aluminum	mg/l	1	1.04	104.	85-115	WG698957
Antimony	mg/l	1	0.998	100.	85-115	WG698957
Arsenic	mg/l	1	1.06	106.	85-115	WG698957
Cadmium	mg/l	1	1.08	108.	85-115	WG698957
Chromium	mg/l	1	1.11	111.	85-115	WG698957
Copper	mg/l	1	1.06	106.	85-115	WG698957
Lead	mg/l	1	1.12	112.	85-115	WG698957
Manganese	mg/l	1	1.09	109.	85-115	WG698957

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

SLR International Corp. - West Linn, OR
Chris Kramer
1800 Blankenship Road, Suite 440

West Linn, OR 97068

Quality Assurance Report
Level II

L675442

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

January 03, 2014

Analyte	Units	Laboratory Control Known Val	Sample Result	% Rec	Limit	Batch
Nickel	mg/l	1	0.995	100.	85-115	WG698957
Silver	mg/l	1	1.03	103.	85-115	WG698957
Zinc	mg/l	1	1.05	105.	85-115	WG698957
PCB 1016	mg/l	.0005	0.000357	71.3	24.7-128	WG698811
PCB 1260	mg/l	.0005	0.000435	87.1	47.7-149	WG698811
Decachlorobiphenyl				78.10	10-156	WG698811
Tetrachloro-m-xylene				68.70	13.9-137	WG698811
Benzylbutyl phthalate	mg/l	.025	0.0270	108.	31.8-123	WG698959
Bis(2-ethylhexyl)phthalate	mg/l	.025	0.0266	106.	36.9-134	WG698959
Di-n-butyl phthalate	mg/l	.025	0.0270	108.	41.8-120	WG698959
Di-n-octyl phthalate	mg/l	.025	0.0246	98.6	39.7-112	WG698959
Diethyl phthalate	mg/l	.025	0.0271	108.	36.5-129	WG698959
Dimethyl phthalate	mg/l	.025	0.0255	102.	35.3-128	WG698959
2,4,6-Tribromophenol				109.0	11.2-130	WG698959
2-Fluorobiphenyl				97.90	29.5-131	WG698959
2-Fluorophenol				56.50	10-77.9	WG698959
Nitrobenzene-d5				86.70	21.8-123	WG698959
Phenol-d5				46.30	5-70.1	WG698959
p-Terphenyl-d14				99.30	29.3-137	WG698959
Mercury	mg/l	.003	0.00284	95.0	85-115	WG698874
1-Methylnaphthalene	mg/l	.002	0.00224	112.	71.2-137	WG699254
2-Chloronaphthalene	mg/l	.002	0.00233	116.	81.1-129	WG699254
2-Methylnaphthalene	mg/l	.002	0.00224	112.	69.8-134	WG699254
Acenaphthene	mg/l	.002	0.00232	116.	80.8-128	WG699254
Acenaphthylene	mg/l	.002	0.00207	104.	77.2-132	WG699254
Anthracene	mg/l	.002	0.00217	108.	78.4-136	WG699254
Benzo(a)anthracene	mg/l	.002	0.00234	117.	69.2-141	WG699254
Benzo(a)pyrene	mg/l	.002	0.00243	121.	71.1-135	WG699254
Benzo(b)fluoranthene	mg/l	.002	0.00228	114.	69.5-140	WG699254
Benzo(g,h,i)perylene	mg/l	.002	0.00243	122.	64.6-138	WG699254
Benzo(k)fluoranthene	mg/l	.002	0.00259	130.	69.3-144	WG699254
Chrysene	mg/l	.002	0.00242	121.	75.6-138	WG699254
Dibenz(a,h)anthracene	mg/l	.002	0.00242	121.	64.1-139	WG699254
Fluoranthene	mg/l	.002	0.00237	118.	78.6-135	WG699254
Fluorene	mg/l	.002	0.00225	112.	78.3-131	WG699254
Indeno(1,2,3-cd)pyrene	mg/l	.002	0.00254	127.	64.8-140	WG699254
Naphthalene	mg/l	.002	0.00196	98.2	80.2-126	WG699254
Phenanthrene	mg/l	.002	0.00210	105.	79.6-130	WG699254
Pyrene	mg/l	.002	0.00230	115.	76.6-134	WG699254
2-Fluorobiphenyl				123.0	64.4-143	WG699254
Nitrobenzene-d5				121.0	61.3-162	WG699254
p-Terphenyl-d14				120.0	55.3-145	WG699254
Gasoline Range Organics-NWTPH	mg/l	5.5	4.11	74.7	66-123	WG699269
a,a,a-Trifluorotoluene(FID)				98.10	62-128	WG699269
Diesel Range Organics (DRO)	mg/l	.75	0.696	92.8	50-150	WG699265
Residual Range Organics (RRO)	mg/l	.75	0.616	82.2	50-150	WG699265
o-Terphenyl				80.90	50-150	WG699265

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

SLR International Corp. - West Linn, OR
Chris Kramer
1800 Blankenship Road, Suite 440

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

West Linn, OR 97068

Quality Assurance Report
Level II

L675442

January 03, 2014

Analyte	Units	Laboratory Control Sample			% Rec	Limit	Batch	
		Known Val	Result	Duplicate				
TOC (Total Organic Carbon)	mg/l	75	71.3	95.0	85-115	WG699812		
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	
Suspended Solids	mg/l	744.	740.	96.0	85-115	0.539	5	WG698764
PCB 1016	mg/l	0.000440	0.000357	88.0	24.7-128	20.9	34.9	WG698811
PCB 1260	mg/l	0.000530	0.000435	106.	47.7-149	19.7	28.8	WG698811
Decachlorobiphenyl				80.80	10-156			WG698811
Tetrachloro-m-xylene				65.30	13.9-137			WG698811
Benzylbutyl phthalate	mg/l	0.0261	0.0270	104.	31.8-123	3.35	20.7	WG698959
Bis(2-ethylhexyl)phthalate	mg/l	0.0256	0.0266	102.	36.9-134	3.78	23.6	WG698959
Di-n-butyl phthalate	mg/l	0.0255	0.0270	102.	41.8-120	5.92	20.2	WG698959
Di-n-octyl phthalate	mg/l	0.0248	0.0246	99.0	39.7-112	0.560	21.1	WG698959
Diethyl phthalate	mg/l	0.0275	0.0271	110.	36.5-129	1.45	20	WG698959
Dimethyl phthalate	mg/l	0.0260	0.0255	104.	35.3-128	1.82	20.8	WG698959
2,4,6-Tribromophenol				97.20	11.2-130			WG698959
2-Fluorobiphenyl				96.90	29.5-131			WG698959
2-Fluorophenol				58.00	10-77.9			WG698959
Nitrobenzene-d5				84.90	21.8-123			WG698959
Phenol-d5				44.00	5-70.1			WG698959
p-Terphenyl-d14				97.20	29.3-137			WG698959
1-Methylnaphthalene	mg/l	0.00212	0.00224	106.	71.2-137	5.18	20	WG699254
2-Chloronaphthalene	mg/l	0.00220	0.00233	110.	81.1-129	5.69	20	WG699254
2-Methylnaphthalene	mg/l	0.00216	0.00224	108.	69.8-134	3.68	20	WG699254
Acenaphthene	mg/l	0.00225	0.00232	112.	80.8-128	3.20	20	WG699254
Acenaphthylene	mg/l	0.00202	0.00207	101.	77.2-132	2.44	20	WG699254
Anthracene	mg/l	0.00204	0.00217	102.	78.4-136	5.84	20	WG699254
Benzo(a)anthracene	mg/l	0.00223	0.00234	112.	69.2-141	4.85	20	WG699254
Benzo(a)pyrene	mg/l	0.00234	0.00243	117.	71.1-135	3.56	20	WG699254
Benzo(b)fluoranthene	mg/l	0.00237	0.00228	118.	69.5-140	3.53	20	WG699254
Benzo(g,h,i)perylene	mg/l	0.00235	0.00243	117.	64.6-138	3.50	20	WG699254
Benzo(k)fluoranthene	mg/l	0.00224	0.00259	112.	69.3-144	14.4	20	WG699254
Chrysene	mg/l	0.00232	0.00242	116.	75.6-138	4.40	20	WG699254
Dibenz(a,h)anthracene	mg/l	0.00230	0.00242	115.	64.1-139	4.74	20	WG699254
Fluoranthene	mg/l	0.00219	0.00237	110.	78.6-135	7.76	20	WG699254
Fluorene	mg/l	0.00217	0.00225	108.	78.3-131	3.75	20	WG699254
Indeno(1,2,3-cd)pyrene	mg/l	0.00241	0.00254	120.	64.8-140	5.06	20	WG699254
Naphthalene	mg/l	0.00187	0.00196	93.0	80.2-126	5.13	20	WG699254
Phenanthrene	mg/l	0.00203	0.00210	102.	79.6-130	3.01	20	WG699254
Pyrene	mg/l	0.00226	0.00230	113.	76.6-134	1.77	20	WG699254
2-Fluorobiphenyl				115.0	64.4-143			WG699254
Nitrobenzene-d5				113.0	61.3-162			WG699254
p-Terphenyl-d14				115.0	55.3-145			WG699254
Gasoline Range Organics-NWTPH	mg/l	4.48	4.11	81.0	66-123	8.70	20	WG699269
a,a,a-Trifluorotoluene(FID)				98.80	62-128			WG699269
Diesel Range Organics (DRO)	mg/l	0.718	0.696	96.0	50-150	3.07	20	WG699265
Residual Range Organics (RRO)	mg/l	0.646	0.616	86.0	50-150	4.74	20	WG699265
o-Terphenyl				83.50	50-150			WG699265

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

SLR International Corp. - West Linn, OR
Chris Kramer
1800 Blankenship Road, Suite 440
West Linn, OR 97068

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report
Level II

L675442

January 03, 2014

Analyte	Laboratory Control		Sample Duplicate		Limit	RPD	Limit	Batch	
	Units	Result	Ref	%Rec					
TOC (Total Organic Carbon)	mg/l	72.7	71.3	97.0	85-115	1.99	20	WG699812	
Matrix Spike									
Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch	
Aluminum	mg/l	1.13	0.221	1	91.0	75-125	L675461-01	WG698957	
Antimony	mg/l	0.922	-0.00134	1	92.0	75-125	L675461-01	WG698957	
Arsenic	mg/l	0.972	0.000493	1	97.0	75-125	L675461-01	WG698957	
Cadmium	mg/l	1.04	0.00121	1	100.	75-125	L675461-01	WG698957	
Chromium	mg/l	1.01	0.000383	1	100.	75-125	L675461-01	WG698957	
Copper	mg/l	1.04	-0.00164	1	100.	75-125	L675461-01	WG698957	
Lead	mg/l	1.01	0.000895	1	100.	75-125	L675461-01	WG698957	
Manganese	mg/l	1.25	0.242	1	100.	75-125	L675461-01	WG698957	
Nickel	mg/l	0.923	0.00677	1	92.0	75-125	L675461-01	WG698957	
Silver	mg/l	0.363	0.00108	1	36.0*	75-125	L675461-01	WG698957	
Zinc	mg/l	1.05	0.0200	1	100.	75-125	L675461-01	WG698957	
Mercury	mg/l	0.00281	0.0000513	.003	92.0	80-120	L675164-02	WG698874	
Gasoline Range Organics-NWTPH a,a,a-Trifluorotoluene(FID)	mg/l	4.34	0.0108	5.5	79.0	47.5-136	L675442-01	WG699269	
98.00					98.00	62-128		WG699269	
TOC (Total Organic Carbon)	mg/l	48.0	0.680	50	94.6	80-120	L674543-79	WG699812	
Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Aluminum	mg/l	1.26	1.13	104.	75-125	11.0	20	L675461-01	WG698957
Antimony	mg/l	0.964	0.922	96.5	75-125	4.00	20	L675461-01	WG698957
Arsenic	mg/l	1.01	0.972	100.	75-125	3.00	20	L675461-01	WG698957
Cadmium	mg/l	1.05	1.04	105.	75-125	1.00	20	L675461-01	WG698957
Chromium	mg/l	1.05	1.01	104.	75-125	3.00	20	L675461-01	WG698957
Copper	mg/l	1.05	1.04	105.	75-125	1.00	20	L675461-01	WG698957
Lead	mg/l	1.05	1.01	105.	75-125	4.00	20	L675461-01	WG698957
Manganese	mg/l	1.26	1.25	102.	75-125	1.00	20	L675461-01	WG698957
Nickel	mg/l	0.947	0.923	94.0	75-125	3.00	20	L675461-01	WG698957
Silver	mg/l	0.353	0.363	35.2*	75-125	3.00	20	L675461-01	WG698957
Zinc	mg/l	1.07	1.05	105.	75-125	2.00	20	L675461-01	WG698957
Mercury	mg/l	0.00284	0.00281	92.9	80-120	1.00	20	L675164-02	WG698874
Gasoline Range Organics-NWTPH a,a,a-Trifluorotoluene(FID)	mg/l	4.56	4.34	82.7	47.5-136	4.94	20	L675442-01	WG699269
99.20					62-128			WG699269	
TOC (Total Organic Carbon)	mg/l	47.8	48.0	94.1	80-120	0.501	20	L674543-79	WG699812

Post Spike

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

**YOUR LAB OF CHOICE**

SLR International Corp. - West Linn, OR
Chris Kramer
1800 Blankenship Road, Suite 440
West Linn, OR 97068

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report
Level II
L675442

January 03, 2014

Post Spike

Serial Dilution

Batch number /Run number / Sample number cross reference

WG698764: R2871406: L675442-01 02
WG698957: R2871785 R2871927: L675442-01 02
WG698811: R2871815 R2871847: L675442-01 02
WG698959: R2871963 R2872156 R2872265 R2872634: L675442-01 02
WG698874: R2872150: L675442-01 02
WG699254: R2872514 R2873051: L675442-01 02
WG699269: R2872529: L675442-01 02
WG699265: R2872926 R2873220: L675442-01 02
WG699812: R2873600: L675442-01 02

* * Calculations are performed prior to rounding of reported values.

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



L A B S C I E N C E S

YOUR LAB OF CHOICE

SLR International Corp. - West Linn, OR
Chris Kramer
1800 Blankenship Road, Suite 440
West Linn, OR 97068

Quality Assurance Report
Level II

L675442

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

January 03, 2014

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

SLR International Corp. - West Linn, OR 1800 Blankenship Road, Suite 440 West Linn, OR 97068				Billing Information: Accounts Payable 1800 Blankenship Rd, Ste 440 West Linn, OR 97068				Analysis / Container / Preservative				Chain of Custody																														
Report to: Chris Kramer				Email To: ewheeler@slrconsulting.com; nbrennan@slrconsulting.com;								 L-A-B S-C-I-E-N-C-E-S YOUR LAB OF CHOICE 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859 L# 675442																														
Project Description: Portland SCE				City/State Collected: Portland, OR								A020																														
Phone: 503-723-4423 Fax:	Client Project # SW SAMPLING			Lab Project # SLRWLOR-WHEELER							Acctnum: SLRWLOR Template: T79169 Prelogin: P447491 TSR: 358 - Jarred Willis PB: 10/23/2013 Shipped Via: FedEx 2nd Day																															
Collected by (print): <i>C. Kramer</i>	Site/Facility ID #			P.O. #							Rem./Contaminant																															
Collected by (signature): <i>C. Kramer</i>	Rush? (Lab MUST Be Notified)			Date Results Needed							Sample # (lab only)																															
Immediately Packed on ice N <input checked="" type="checkbox"/>	Same Day 200% Next Day 100% Two Day 50% Three Day 25%			Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes FAX? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes			No. of Cntrs																																			
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	8082 100ml Amb-NoPres				8270PHTH 100ml Amb NoPres				Metals 500mlHDPE-HNO3 <2				NWTPHDX 100ml Amb-HCl <2				PAHSIMLVID 40mlAmb-Septa-HCl <2				TOC 250mlAmb-Septa-HCl <2				TSS 1L-HDPE NoPres												
CB-11		GW		12/20/13	1500	14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		01					
CB-3		GW		12/20/13	1515	14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	02					
		GW				14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	03				
		GW				14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	04				
* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other												pH	Temp	Flow	Other	Hold #																										
Remarks: Metals = Al, Sb, As, Cd, Cr, Cu, Pb, Mn, Hg, Ni, Ag, Zn																																										
5781 0503 6316																																										

Relinquished by : (Signature) <i>C. Kramer</i>	Date: 12/20/13	Time: 1600	Received by: (Signature)	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/>	Condition: <i>5</i> (lab use only)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.4 °C Bottles Received: 130-22	COC Seal Intact: Y N NA
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) <i>Kane</i>	Date: 12-21-13 Time: 1130	pH Checked: <2 NCF:



Specialty Analytical

11711 SE Capps Road, Ste B
Clackamas, Oregon 97015
TEL: 503-607-1331 FAX: 503-607-1336
Website: www.specialtyanalytical.com

May 21, 2014

Scott Miller
SLR International Corp.
1800 Blankenship Rd.
Ste 440
West Linn, OR 97068

TEL: (503) 723-4423
FAX
RE: Lampros / 108.00895.0002

Dear Scott Miller:

Order No.: 1405068

Specialty Analytical received 3 sample(s) on 5/9/2014 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications, except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

Marty French
Lab Director

Specialty Analytical

Date Reported: 21-May-14

CLIENT:	SLR International Corp.	Collection Date:	5/8/2014 5:00:00 PM
Project:	Lampros / 108.00895.0002		
Lab ID:	1405068-001		
Client Sample ID:	CB-3	Matrix:	WATER

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX - RBC						
Diesel	0.844	0.0774	A1,K	mg/L	1	5/12/2014 10:06:00 AM
Lube Oil	1.73	0.193		mg/L	1	5/12/2014 10:06:00 AM
Surr: o-Terphenyl	107	50-150		%REC	1	5/12/2014 10:06:00 AM
NWTPH-GX						
Gasoline	ND	100		µg/L	1	5/9/2014 12:33:00 PM
Surr: 4-Bromofluorobenzene	101	50-150		%REC	1	5/9/2014 12:33:00 PM
ICP METALS- TOTAL RECOVERABLE						
		E200.7				Analyst: VAS
Aluminum	5.06	0.0500		mg/L	1	5/12/2014 4:22:09 PM
Antimony	ND	0.0200		mg/L	1	5/12/2014 4:22:09 PM
Arsenic	ND	0.0200		mg/L	1	5/12/2014 4:22:09 PM
Cadmium	ND	0.00100		mg/L	1	5/12/2014 4:22:09 PM
Chromium	0.0201	0.00500		mg/L	1	5/12/2014 4:22:09 PM
Copper	0.0242	0.0100		mg/L	1	5/12/2014 4:22:09 PM
Lead	ND	0.0200		mg/L	1	5/12/2014 4:22:09 PM
Manganese	0.209	0.00100	B	mg/L	1	5/12/2014 4:22:09 PM
Nickel	0.0105	0.00500		mg/L	1	5/12/2014 4:22:09 PM
Silver	ND	0.0100		mg/L	1	5/12/2014 4:22:09 PM
Zinc	0.162	0.0100		mg/L	1	5/12/2014 4:22:09 PM
TOTAL MERCURY-AQUEOUS						
		E245.2				Analyst: VAS
Mercury	ND	0.000200		mg/L	1	5/15/2014 2:36:00 PM
SEMI-VOLATILE COMPOUNDS - BASE/NEUTRAL SW8270D						
Bis(2-ethylhexyl)phthalate	1.89	0.952		µg/L	1	5/12/2014 8:07:00 PM
Butyl benzyl phthalate	ND	0.952		µg/L	1	5/12/2014 8:07:00 PM
Diethyl phthalate	ND	0.952		µg/L	1	5/12/2014 8:07:00 PM
Dimethyl phthalate	ND	0.952		µg/L	1	5/12/2014 8:07:00 PM
Di-n-butyl phthalate	ND	0.952		µg/L	1	5/12/2014 8:07:00 PM
Di-n-octyl phthalate	ND	0.952		µg/L	1	5/12/2014 8:07:00 PM
Surr: 2-Fluorobiphenyl	62.1	33.1-96.2		%REC	1	5/12/2014 8:07:00 PM
Surr: 4-Terphenyl-d14	75.8	41-122		%REC	1	5/12/2014 8:07:00 PM
Surr: Nitrobenzene-d5	75.3	28.9-99.9		%REC	1	5/12/2014 8:07:00 PM
PAH'S BY GC/MS - LOW LEVEL						
		SW8270D				Analyst: bda
Acenaphthene	ND	0.0494		µg/L	1	5/9/2014 1:41:00 PM
Acenaphthylene	ND	0.0494		µg/L	1	5/9/2014 1:41:00 PM
Anthracene	ND	0.0494		µg/L	1	5/9/2014 1:41:00 PM
Benz(a)anthracene	ND	0.0494		µg/L	1	5/9/2014 1:41:00 PM

Specialty Analytical

Date Reported: 21-May-14

CLIENT: SLR International Corp. **Collection Date:** 5/8/2014 5:00:00 PM
Project: Lampros / 108.00895.0002
Lab ID: 1405068-001
Client Sample ID: CB-3 **Matrix:** WATER

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
PAH'S BY GC/MS - LOW LEVEL						
Benzo(a)pyrene	ND	0.0494		µg/L	1	5/9/2014 1:41:00 PM
Benzo(b)fluoranthene	0.0524	0.0494		µg/L	1	5/9/2014 1:41:00 PM
Benzo(g,h,i)perylene	0.109	0.0494		µg/L	1	5/9/2014 1:41:00 PM
Benzo(k)fluoranthene	ND	0.0494		µg/L	1	5/9/2014 1:41:00 PM
Chrysene	0.119	0.0494		µg/L	1	5/9/2014 1:41:00 PM
Dibenz(a,h)anthracene	ND	0.0494		µg/L	1	5/9/2014 1:41:00 PM
Fluoranthene	0.141	0.0494		µg/L	1	5/9/2014 1:41:00 PM
Fluorene	ND	0.0494		µg/L	1	5/9/2014 1:41:00 PM
Indeno(1,2,3-cd)pyrene	0.0527	0.0494		µg/L	1	5/9/2014 1:41:00 PM
Naphthalene	ND	0.0494		µg/L	1	5/9/2014 1:41:00 PM
Phenanthrene	0.0837	0.0494		µg/L	1	5/9/2014 1:41:00 PM
Pyrene	0.125	0.0494		µg/L	1	5/9/2014 1:41:00 PM
Surr: 2-Fluorobiphenyl	84.7	18.6-106		%REC	1	5/9/2014 1:41:00 PM
Surr: Nitrobenzene-d5	56.3	17-130		%REC	1	5/9/2014 1:41:00 PM
Surr: Terphenyl-d14	140	39.6-131	S	%REC	1	5/9/2014 1:41:00 PM
PCB'S IN LIQUID						
Aroclor 1016	ND	0.0190		µg/L	1	5/9/2014 4:35:00 PM
Aroclor 1221	ND	0.0190		µg/L	1	5/9/2014 4:35:00 PM
Aroclor 1232	ND	0.0190		µg/L	1	5/9/2014 4:35:00 PM
Aroclor 1242	ND	0.0190		µg/L	1	5/9/2014 4:35:00 PM
Aroclor 1248	ND	0.0190		µg/L	1	5/9/2014 4:35:00 PM
Aroclor 1254	ND	0.0190		µg/L	1	5/9/2014 4:35:00 PM
Aroclor 1260	ND	0.0190		µg/L	1	5/9/2014 4:35:00 PM
Aroclor 1262	ND	0.0190		µg/L	1	5/9/2014 4:35:00 PM
Aroclor 1268	ND	0.0190		µg/L	1	5/9/2014 4:35:00 PM
Surr: Decachlorobiphenyl	76.3	45-107		%REC	1	5/9/2014 4:35:00 PM
ORGANIC CARBON, TOTAL						
Organic Carbon, Total	7.84	1.00		mg/L	1	5/20/2014 1:24:13 PM
TOTAL SUSPENDED SOLIDS						
Total Suspended Solids	119	5.00		mg/L	1	5/9/2014 10:24:16 AM

Specialty Analytical

Date Reported: 21-May-14

CLIENT:	SLR International Corp.	Collection Date:	5/8/2014 5:20:00 PM
Project:	Lampros / 108.00895.0002		
Lab ID:	1405068-002		
Client Sample ID:	CB-11	Matrix:	WATER

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX - RBC						
Diesel	1.96	0.0758	A1,K	mg/L	1	5/12/2014 10:29:00 AM
Lube Oil	5.41	0.190		mg/L	1	5/12/2014 10:29:00 AM
Surr: o-Terphenyl	108	50-150		%REC	1	5/12/2014 10:29:00 AM
NWTPH-GX						
Gasoline	ND	100		µg/L	1	5/9/2014 1:00:00 PM
Surr: 4-Bromofluorobenzene	102	50-150		%REC	1	5/9/2014 1:00:00 PM
ICP METALS- TOTAL RECOVERABLE						
		E200.7				Analyst: VAS
Aluminum	6.17	0.0500		mg/L	1	5/12/2014 4:27:11 PM
Antimony	ND	0.0200		mg/L	1	5/12/2014 4:27:11 PM
Arsenic	ND	0.0200		mg/L	1	5/12/2014 4:27:11 PM
Cadmium	ND	0.00100		mg/L	1	5/12/2014 4:27:11 PM
Chromium	0.0209	0.00500		mg/L	1	5/12/2014 4:27:11 PM
Copper	0.0421	0.0100		mg/L	1	5/12/2014 4:27:11 PM
Lead	0.0201	0.0200		mg/L	1	5/12/2014 4:27:11 PM
Manganese	0.344	0.00100	B	mg/L	1	5/12/2014 4:27:11 PM
Nickel	0.0130	0.00500		mg/L	1	5/12/2014 4:27:11 PM
Silver	ND	0.0100		mg/L	1	5/12/2014 4:27:11 PM
Zinc	0.251	0.0100		mg/L	1	5/12/2014 4:27:11 PM
TOTAL MERCURY-AQUEOUS						
		E245.2				Analyst: VAS
Mercury	ND	0.000100		mg/L	1	5/15/2014 2:48:00 PM
SEMI-VOLATILE COMPOUNDS - BASE/NEUTRAL SW8270D						
Bis(2-ethylhexyl)phthalate	2.06	0.951		µg/L	1	5/12/2014 8:36:00 PM
Butyl benzyl phthalate	ND	0.951		µg/L	1	5/12/2014 8:36:00 PM
Diethyl phthalate	ND	0.951		µg/L	1	5/12/2014 8:36:00 PM
Dimethyl phthalate	ND	0.951		µg/L	1	5/12/2014 8:36:00 PM
Di-n-butyl phthalate	ND	0.951		µg/L	1	5/12/2014 8:36:00 PM
Di-n-octyl phthalate	ND	0.951		µg/L	1	5/12/2014 8:36:00 PM
Surr: 2-Fluorobiphenyl	78.3	33.1-96.2		%REC	1	5/12/2014 8:36:00 PM
Surr: 4-Terphenyl-d14	95.9	41-122		%REC	1	5/12/2014 8:36:00 PM
Surr: Nitrobenzene-d5	93.1	28.9-99.9		%REC	1	5/12/2014 8:36:00 PM
PAH'S BY GC/MS - LOW LEVEL						
		SW8270D				Analyst: bda
Acenaphthene	0.336	0.0473		µg/L	1	5/9/2014 2:30:00 PM
Acenaphthylene	0.0662	0.0473		µg/L	1	5/9/2014 2:30:00 PM
Anthracene	0.129	0.0473		µg/L	1	5/9/2014 2:30:00 PM
Benz(a)anthracene	0.487	0.0473		µg/L	1	5/9/2014 2:30:00 PM

Specialty Analytical

Date Reported: 21-May-14

CLIENT: SLR International Corp. **Collection Date:** 5/8/2014 5:20:00 PM
Project: Lampros / 108.00895.0002
Lab ID: 1405068-002
Client Sample ID: CB-11 **Matrix:** WATER

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
PAH'S BY GC/MS - LOW LEVEL						
Benzo(a)pyrene	0.696	0.0473		µg/L	1	5/9/2014 2:30:00 PM
Benzo(b)fluoranthene	1.11	0.0473		µg/L	1	5/9/2014 2:30:00 PM
Benzo(g,h,i)perylene	1.00	0.0473		µg/L	1	5/9/2014 2:30:00 PM
Benzo(k)fluoranthene	0.332	0.0473		µg/L	1	5/9/2014 2:30:00 PM
Chrysene	1.16	0.0473		µg/L	1	5/9/2014 2:30:00 PM
Dibenz(a,h)anthracene	0.190	0.0473		µg/L	1	5/9/2014 2:30:00 PM
Fluoranthene	2.13	0.0473		µg/L	1	5/9/2014 2:30:00 PM
Fluorene	0.180	0.0473		µg/L	1	5/9/2014 2:30:00 PM
Indeno(1,2,3-cd)pyrene	0.520	0.0473		µg/L	1	5/9/2014 2:30:00 PM
Naphthalene	0.0894	0.0473		µg/L	1	5/9/2014 2:30:00 PM
Phenanthrene	1.70	0.0473		µg/L	1	5/9/2014 2:30:00 PM
Pyrene	1.61	0.0473		µg/L	1	5/9/2014 2:30:00 PM
Surr: 2-Fluorobiphenyl	77.0	18.6-106		%REC	1	5/9/2014 2:30:00 PM
Surr: Nitrobenzene-d5	45.4	17-130		%REC	1	5/9/2014 2:30:00 PM
Surr: Terphenyl-d14	142	39.6-131	S	%REC	1	5/9/2014 2:30:00 PM
PCB'S IN LIQUID						
Aroclor 1016	ND	0.0189		µg/L	1	5/9/2014 4:52:00 PM
Aroclor 1221	ND	0.0189		µg/L	1	5/9/2014 4:52:00 PM
Aroclor 1232	ND	0.0189		µg/L	1	5/9/2014 4:52:00 PM
Aroclor 1242	ND	0.0189		µg/L	1	5/9/2014 4:52:00 PM
Aroclor 1248	ND	0.0189		µg/L	1	5/9/2014 4:52:00 PM
Aroclor 1254	ND	0.0189		µg/L	1	5/9/2014 4:52:00 PM
Aroclor 1260	ND	0.0189		µg/L	1	5/9/2014 4:52:00 PM
Aroclor 1262	ND	0.0189		µg/L	1	5/9/2014 4:52:00 PM
Aroclor 1268	ND	0.0189		µg/L	1	5/9/2014 4:52:00 PM
Surr: Decachlorobiphenyl	55.8	45-107		%REC	1	5/9/2014 4:52:00 PM
ORGANIC CARBON, TOTAL						
Organic Carbon, Total	26.1	2.00		mg/L	2	5/20/2014 1:49:13 PM
TOTAL SUSPENDED SOLIDS						
Total Suspended Solids	191	5.00		mg/L	1	5/9/2014 10:27:16 AM

Specialty Analytical

Date Reported: 21-May-14

CLIENT:	SLR International Corp.	Collection Date:	5/8/2014 5:30:00 PM
Project:	Lampros / 108.00895.0002		
Lab ID:	1405068-003		
Client Sample ID:	CB-South	Matrix:	WATER

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX - RBC						
Diesel	0.276	0.0769	A1,K	mg/L	1	5/12/2014 9:45:00 AM
Lube Oil	0.577	0.192		mg/L	1	5/12/2014 9:45:00 AM
Surr: o-Terphenyl	70.3	50-150		%REC	1	5/12/2014 9:45:00 AM
NWTPH-GX						
Gasoline	ND	100		µg/L	1	5/9/2014 1:28:00 PM
Surr: 4-Bromofluorobenzene	102	50-150		%REC	1	5/9/2014 1:28:00 PM
ICP METALS- TOTAL RECOVERABLE						
		E200.7				Analyst: VAS
Aluminum	3.18	0.0500		mg/L	1	5/12/2014 4:32:14 PM
Antimony	ND	0.0200		mg/L	1	5/12/2014 4:32:14 PM
Arsenic	ND	0.0200		mg/L	1	5/12/2014 4:32:14 PM
Cadmium	ND	0.00100		mg/L	1	5/12/2014 4:32:14 PM
Chromium	0.0187	0.00500		mg/L	1	5/12/2014 4:32:14 PM
Copper	0.0293	0.0100		mg/L	1	5/12/2014 4:32:14 PM
Lead	ND	0.0200		mg/L	1	5/12/2014 4:32:14 PM
Manganese	0.222	0.00100	B	mg/L	1	5/12/2014 4:32:14 PM
Nickel	ND	0.00500		mg/L	1	5/12/2014 4:32:14 PM
Silver	ND	0.0100		mg/L	1	5/12/2014 4:32:14 PM
Zinc	0.114	0.0100		mg/L	1	5/12/2014 4:32:14 PM
TOTAL MERCURY-AQUEOUS						
		E245.2				Analyst: VAS
Mercury	ND	0.000100		mg/L	1	5/15/2014 2:51:00 PM
SEMI-VOLATILE COMPOUNDS - BASE/NEUTRAL SW8270D						
Bis(2-ethylhexyl)phthalate	ND	0.966		µg/L	1	5/12/2014 7:38:00 PM
Butyl benzyl phthalate	ND	0.966		µg/L	1	5/12/2014 7:38:00 PM
Diethyl phthalate	ND	0.966		µg/L	1	5/12/2014 7:38:00 PM
Dimethyl phthalate	ND	0.966		µg/L	1	5/12/2014 7:38:00 PM
Di-n-butyl phthalate	ND	0.966		µg/L	1	5/12/2014 7:38:00 PM
Di-n-octyl phthalate	ND	0.966		µg/L	1	5/12/2014 7:38:00 PM
Surr: 2-Fluorobiphenyl	68.5	33.1-96.2		%REC	1	5/12/2014 7:38:00 PM
Surr: 4-Terphenyl-d14	94.9	41-122		%REC	1	5/12/2014 7:38:00 PM
Surr: Nitrobenzene-d5	80.8	28.9-99.9		%REC	1	5/12/2014 7:38:00 PM
PAH'S BY GC/MS - LOW LEVEL						
		SW8270D				Analyst: bda
Acenaphthene	ND	0.0490		µg/L	1	5/9/2014 2:05:00 PM
Acenaphthylene	ND	0.0490		µg/L	1	5/9/2014 2:05:00 PM
Anthracene	ND	0.0490		µg/L	1	5/9/2014 2:05:00 PM
Benz(a)anthracene	0.0867	0.0490		µg/L	1	5/9/2014 2:05:00 PM

Specialty Analytical

Date Reported: 21-May-14

CLIENT: SLR International Corp. Collection Date: 5/8/2014 5:30:00 PM

Project: Lampros / 108.00895.0002

Lab ID: 1405068-003

Client Sample ID: CB-South

Matrix: WATER

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
PAH'S BY GC/MS - LOW LEVEL						
Benzo(a)pyrene	0.103	0.0490		µg/L	1	5/9/2014 2:05:00 PM
Benzo(b)fluoranthene	0.124	0.0490		µg/L	1	5/9/2014 2:05:00 PM
Benzo(g,h,i)perylene	0.172	0.0490		µg/L	1	5/9/2014 2:05:00 PM
Benzo(k)fluoranthene	0.122	0.0490		µg/L	1	5/9/2014 2:05:00 PM
Chrysene	0.159	0.0490		µg/L	1	5/9/2014 2:05:00 PM
Dibenz(a,h)anthracene	ND	0.0490		µg/L	1	5/9/2014 2:05:00 PM
Fluoranthene	0.249	0.0490		µg/L	1	5/9/2014 2:05:00 PM
Fluorene	ND	0.0490		µg/L	1	5/9/2014 2:05:00 PM
Indeno(1,2,3-cd)pyrene	0.118	0.0490		µg/L	1	5/9/2014 2:05:00 PM
Naphthalene	ND	0.0490		µg/L	1	5/9/2014 2:05:00 PM
Phenanthrene	0.105	0.0490		µg/L	1	5/9/2014 2:05:00 PM
Pyrene	0.155	0.0490		µg/L	1	5/9/2014 2:05:00 PM
Surr: 2-Fluorobiphenyl	94.1	18.6-106		%REC	1	5/9/2014 2:05:00 PM
Surr: Nitrobenzene-d5	57.2	17-130		%REC	1	5/9/2014 2:05:00 PM
Surr: Terphenyl-d14	157	39.6-131	S	%REC	1	5/9/2014 2:05:00 PM
PCB'S IN LIQUID						
		SW 8082A				Analyst: ajr
Aroclor 1016	ND	0.0191		µg/L	1	5/9/2014 5:09:00 PM
Aroclor 1221	ND	0.0191		µg/L	1	5/9/2014 5:09:00 PM
Aroclor 1232	ND	0.0191		µg/L	1	5/9/2014 5:09:00 PM
Aroclor 1242	ND	0.0191		µg/L	1	5/9/2014 5:09:00 PM
Aroclor 1248	ND	0.0191		µg/L	1	5/9/2014 5:09:00 PM
Aroclor 1254	ND	0.0191		µg/L	1	5/9/2014 5:09:00 PM
Aroclor 1260	ND	0.0191		µg/L	1	5/9/2014 5:09:00 PM
Aroclor 1262	ND	0.0191		µg/L	1	5/9/2014 5:09:00 PM
Aroclor 1268	ND	0.0191		µg/L	1	5/9/2014 5:09:00 PM
Surr: Decachlorobiphenyl	77.2	45-107		%REC	1	5/9/2014 5:09:00 PM
ORGANIC CARBON, TOTAL						
Organic Carbon, Total	5.61	1.00		mg/L	1	5/20/2014 2:14:13 PM
TOTAL SUSPENDED SOLIDS						
Total Suspended Solids	44.0	5.00		mg/L	1	5/9/2014 10:30:16 AM

QC SUMMARY REPORT

WO#: 1405068
21-May-14

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.0002

TestCode: 200.7

Sample ID: ICV	SampType: ICV	TestCode: 200.7	Units: mg/L	Prep Date:	RunNo: 15053
Client ID: ICV	Batch ID: 7382	TestNo: E200.7	E200.7	Analysis Date: 5/12/2014	SeqNo: 197486
Analyte					
Aluminum	2.53	0.0500	2.500	0	101
Antimony	0.505	0.0200	0.5000	0	101
Arsenic	1.00	0.0200	1.000	0	100
Cadmium	0.0504	0.00100	0.05000	0	101
Chromium	0.258	0.00500	0.2500	0	103
Copper	0.491	0.0100	0.5000	0	98.2
Lead	1.03	0.0200	1.000	0	103
Manganese	0.0499	0.00100	0.05000	0	99.8
Nickel	0.257	0.00500	0.2500	0	103
Silver	0.493	0.0100	0.5000	0	98.6
Zinc	0.512	0.0100	0.5000	0	102
					B

Sample ID: CCV	SampType: CCV	TestCode: 200.7	Units: mg/L	Prep Date:	RunNo: 15053
Client ID: CCV	Batch ID: 7382	TestNo: E200.7	E200.7	Analysis Date: 5/12/2014	SeqNo: 197487
Analyte					
Aluminum	2.58	0.0500	2.500	0	103
Antimony	0.512	0.0200	0.5000	0	102
Arsenic	1.05	0.0200	1.000	0	105
Cadmium	0.0522	0.00100	0.05000	0	104
Chromium	0.264	0.00500	0.2500	0	106
Copper	0.511	0.0100	0.5000	0	102
Lead	1.06	0.0200	1.000	0	106
Manganese	0.0511	0.00100	0.05000	0	102
					B

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 1 of 21

QC SUMMARY REPORT

WO#: 1405068
21-May-14

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.0002

TestCode: 200.7

Sample ID: CCV	SampType: CCV	TestCode: 200.7	Units: mg/L	Prep Date:	RunNo: 15053
Client ID: CCV	Batch ID: 7382	TestNo: E200.7	E200.7	Analysis Date: 5/12/2014	SeqNo: 197487
Analyte					
Nickel	Result	PQL	SPK value	SPK Ref Val	%REC
0.264	0.00500	0.2500	0	105	90
Silver		0.0100	0.5000	0	99.9
Zinc		0.0100	0.5000	0	105

Sample ID: MBLK-7382	SampType: MBLK	TestCode: 200.7	Units: mg/L	Prep Date:	RunNo: 15053
Client ID: PBW	Batch ID: 7382	TestNo: E200.7	E200.7	Analysis Date: 5/12/2014	SeqNo: 197488
Analyte					
Aluminum	Result	PQL	SPK value	SPK Ref Val	%REC
ND	0.0500				
Antimony		ND	0.0200		
Arsenic		ND	0.0200		
Cadmium		ND	0.00100		
Chromium		ND	0.00500		
Copper		ND	0.0100		
Lead		ND	0.0200		
Manganese	0.00500		0.00100		
Nickel		ND	0.00500		
Silver		ND	0.0100		
Zinc		ND	0.0100		

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 2 of 21

QC SUMMARY REPORT

WO#: 1405068
21-May-14

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.0002

TestCode: 200.7

Sample ID: LCS-7382	SampType: LCS	TestCode: 200.7	Units: mg/L	Prep Date: 5/12/2014	RunNo: 15053						
Client ID: LCSW	Batch ID: 7382	TestNo: E200.7	E200.7	Analysis Date: 5/12/2014	SeqNo: 197489						
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual											
Aluminum	2.46	0.0500	2.500	0	98.2	85	115				
Antimony	0.490	0.0200	0.5000	0	97.9	91.2	113				
Arsenic	0.975	0.0200	1.000	0	97.5	93.8	107				
Cadmium	0.0497	0.00100	0.05000	0	99.4	91.8	115				
Chromium	0.251	0.00500	0.2500	0	100	93.9	113				
Copper	0.477	0.0100	0.5000	0	95.4	89.7	117				
Lead	1.01	0.0200	1.000	0	101	93.1	112				
Manganese	0.0494	0.00100	0.05000	0	98.8	94.6	112				B
Nickel	0.249	0.00500	0.2500	0	99.6	93.4	111				
Silver	0.486	0.0100	0.5000	0	97.1	90.6	115				
Zinc	0.505	0.0100	0.5000	0	101	92.3	111				

Sample ID: CCV	SampType: CCV	TestCode: 200.7	Units: mg/L	Prep Date:	RunNo: 15053						
Client ID: CCV	Batch ID: 7382	TestNo: E200.7	E200.7	Analysis Date: 5/12/2014	SeqNo: 197490						
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual											
Aluminum	2.48	0.0500	2.500	0	99.3	90	110				
Antimony	0.504	0.0200	0.5000	0	101	90	110				
Arsenic	0.985	0.0200	1.000	0	98.5	90	110				
Cadmium	0.0506	0.00100	0.05000	0	101	90	110				
Chromium	0.253	0.00500	0.2500	0	101	90	110				
Copper	0.495	0.0100	0.5000	0	99.0	90	110				
Lead	1.04	0.0200	1.000	0	104	90	110				
Manganese	0.0493	0.00100	0.05000	0	98.6	90	110				B

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSdlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 3 of 21

QC SUMMARY REPORT

WO#: 1405068
21-May-14

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.0002

TestCode: 200.7

Sample ID: CCV	SampType: CCV	TestCode: 200.7	Units: mg/L	Prep Date:	RunNo: 15053
Client ID: CCV	Batch ID: 7382	TestNo: E200.7	E200.7	Analysis Date: 5/12/2014	SeqNo: 197490
Analyte					
Nickel	Result	PQL	SPK value	SPK Ref Val	%REC
0.252	0.00500	0.2500	0	101	90
Silver		0.0100	0.5000	0	98.4
Zinc		0.0100	0.5000	0	103
				90	110

Sample ID: 1405075-002CDUP	SampType: DUP	TestCode: 200.7	Units: mg/L	Prep Date: 5/12/2014	RunNo: 15053
Client ID: ZZZZZZ	Batch ID: 7382	TestNo: E200.7	E200.7	Analysis Date: 5/12/2014	SeqNo: 197492
Analyte					
Aluminum	Result	PQL	SPK value	SPK Ref Val	%REC
0.0810	0.0500				0.08170
Antimony		ND	0.0200		0
Arsenic		ND	0.0200		0
Cadmium		ND	0.00100		200
Chromium		0.0103	0.00500		0
Copper		0.500	0.0100		0.008300
Lead		ND	0.0200		21.5
Manganese		0.0523	0.00100		20
Nickel		0.152	0.00500		RF
Silver		ND	0.0100		0.5022
Zinc		0.0485	0.0100		0.519
				0	20
				0	20
				0	20
				0.05250	B
				0.1505	0.382
				0.794	20
				0	20
				0.04530	6.82
					20

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 4 of 21

QC SUMMARY REPORT

WO#: 1405068
21-May-14

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.0002

TestCode: 200.7

Sample ID: 1405075-002CMS	SampType: MS	TestCode: 200.7	Units: mg/L	Prep Date: 5/12/2014	RunNo: 15053
Client ID: ZZZZZZ	Batch ID: 7382	TestNo: E200.7	E200.7	Analysis Date: 5/12/2014	SeqNo: 197493
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Aluminum	2.65	0.0500	2.500	0.08170	103
Antimony	0.470	0.0200	0.5000	0.009800	92.0
Arsenic	1.00	0.0200	1.000	0.005300	99.8
Cadmium	0.0503	0.00100	0.05000	0	101
Chromium	0.251	0.00500	0.2500	0.008300	97.0
Copper	0.998	0.0100	0.5000	0.5022	99.2
Lead	0.984	0.0200	1.000	0	98.4
Manganese	0.101	0.00100	0.05000	0.05250	96.6
Nickel	0.394	0.00500	0.2500	0.1505	97.6
Silver	0.497	0.0100	0.5000	0	99.3
Zinc	0.567	0.0100	0.5000	0.04530	104
					B

Sample ID: 1405075-002CMSD	SampType: MSD	TestCode: 200.7	Units: mg/L	Prep Date: 5/12/2014	RunNo: 15053
Client ID: ZZZZZZ	Batch ID: 7382	TestNo: E200.7	E200.7	Analysis Date: 5/12/2014	SeqNo: 197494
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Aluminum	2.66	0.0500	2.500	0.08170	103
Antimony	0.485	0.0200	0.5000	0.009800	95.0
Arsenic	1.01	0.0200	1.000	0.005300	100
Cadmium	0.0506	0.00100	0.05000	0	101
Chromium	0.255	0.00500	0.2500	0.008300	98.7
Copper	1.01	0.0100	0.5000	0.5022	101
Lead	1.01	0.0200	1.000	0	101
Manganese	0.101	0.00100	0.05000	0.05250	97.0
					B

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 5 of 21

QC SUMMARY REPORT

WO#: 1405068
21-May-14

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.0002

TestCode: 200.7

Sample ID: 1405075-002CMSD	SampType: MSD	TestCode: 200.7	Units: mg/L	Prep Date: 5/12/2014	RunNo: 15053
Client ID: ZZZZZZ	Batch ID: 7382	TestNo: E200.7	E200.7	Analysis Date: 5/12/2014	SeqNo: 197494
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Nickel	0.397	0.00500	0.2500	0.1505	98.4
Silver	0.501	0.0100	0.5000	0	100
Zinc	0.571	0.0100	0.5000	0.04530	105

Sample ID: CCV	SampType: CCV	TestCode: 200.7	Units: mg/L	Prep Date:	RunNo: 15053
Client ID: CCV	Batch ID: 7382	TestNo: E200.7	E200.7	Analysis Date: 5/12/2014	SeqNo: 197500
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Aluminum	2.42	0.0500	2.500	0	96.8
Antimony	0.486	0.0200	0.5000	0	97.1
Arsenic	0.973	0.0200	1.000	0	97.3
Cadmium	0.0496	0.00100	0.05000	0	99.2
Chromium	0.248	0.00500	0.2500	0	99.0
Copper	0.474	0.0100	0.5000	0	94.8
Lead	1.00	0.0200	1.000	0	100
Manganese	0.0488	0.00100	0.05000	0	97.6
Nickel	0.246	0.00500	0.2500	0	98.3
Silver	0.483	0.0100	0.5000	0	96.6
Zinc	0.503	0.0100	0.5000	0	101

B

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 6 of 21

QC SUMMARY REPORT

WO#: 1405068
21-May-14

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.0002

TestCode: 8082LL_W

Sample ID: MB-7368	SampType: MBLK	TestCode: 8082LL_W	Units: µg/L	Prep Date: 5/9/2014	RunNo: 15018						
Client ID: PBW	Batch ID: 7368	TestNo: SW 8082A	SW3510_PCB	Analysis Date: 5/9/2014	SeqNo: 197100						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.0200									
Aroclor 1221	ND	0.0200									
Aroclor 1232	ND	0.0200									
Aroclor 1242	ND	0.0200									
Aroclor 1248	ND	0.0200									
Aroclor 1254	ND	0.0200									
Aroclor 1260	ND	0.0200									
Aroclor 1262	ND	0.0200									
Aroclor 1268	ND	0.0200									
Surr: Decachlorobiphenyl	127		200.0		63.6	45	107				

Sample ID: LCS-7368	SampType: LCS	TestCode: 8082LL_W	Units: µg/L	Prep Date: 5/9/2014	RunNo: 15018						
Client ID: LCSW	Batch ID: 7368	TestNo: SW 8082A	SW3510_PCB	Analysis Date: 5/9/2014	SeqNo: 197102						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1260	1.57	0.0200	2.000	0	78.6	40.4	110				

Sample ID: LCSD-7368	SampType: LCSD	TestCode: 8082LL_W	Units: µg/L	Prep Date: 5/9/2014	RunNo: 15018						
Client ID: LCSS02	Batch ID: 7368	TestNo: SW 8082A	SW3510_PCB	Analysis Date: 5/9/2014	SeqNo: 197103						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1260	1.55	0.0200	2.000	0	77.6	40.4	110	1.572	1.24	20	

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 7 of 21

QC SUMMARY REPORT

WO#: 1405068
21-May-14

Specialty Analytical

Client:	SLR International Corp.										
Project:	Lampros / 108.00895.0002										
	TestCode: 8082LL_W										
Sample ID: 1016/1260 CCV	SampType: CCV	TestCode: 8082LL_W	Units: µg/L	Prep Date:					RunNo: 15018		
Client ID: CCV	Batch ID: 7368	TestNo: SW 8082A	SW3510_PCB	Analysis Date: 5/9/2014					SeqNo: 197104		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1260	2.00	0.0200	2.000	0	100	85	115				
Sample ID: 1016/1260 CCV	SampType: CCV	TestCode: 8082LL_W	Units: µg/L	Prep Date:					RunNo: 15018		
Client ID: CCV	Batch ID: 7368	TestNo: SW 8082A	SW3510_PCB	Analysis Date: 5/9/2014					SeqNo: 197105		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1260	1.89	0.0200	2.000	0	94.3	85	115				
Sample ID: 1016/1260 CCV	SampType: CCV	TestCode: 8082LL_W	Units: µg/L	Prep Date:					RunNo: 15018		
Client ID: CCV	Batch ID: 7368	TestNo: SW 8082A	SW3510_PCB	Analysis Date: 5/9/2014					SeqNo: 197529		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1260	0.865	0.0200	1.000	0	86.5	85	115				

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 8 of 21

QC SUMMARY REPORT

WO#: 1405068
21-May-14

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.0002

TestCode: 8270BN_W

Sample ID: CCV-7379	SampType: CCV	TestCode: 8270BN_W	Units: µg/L	Prep Date:	RunNo: 15046
Client ID: CCV	Batch ID: 7379	TestNo: SW8270D	SW 3510C	Analysis Date: 5/12/2014	SeqNo: 197426
Analyte					
Di-n-octyl phthalate	Result	PQL	SPK value	SPK Ref Val	%REC

Sample ID: MB-7379	SampType: MBLK	TestCode: 8270BN_W	Units: µg/L	Prep Date: 5/12/2014	RunNo: 15046
Client ID: PBW	Batch ID: 7379	TestNo: SW8270D	SW 3510C	Analysis Date: 5/12/2014	SeqNo: 197429
Analyte					
Bis(2-ethylhexyl)phthalate	Result	PQL	SPK value	SPK Ref Val	%REC
Butyl benzyl phthalate	ND	1.00			
Diethyl phthalate	ND	1.00			
Dimethyl phthalate	ND	1.00			
Di-n-butyl phthalate	ND	1.00			
Di-n-octyl phthalate	ND	1.00			
Surr: 2-Fluorobiphenyl	62.9		100.0	62.9	33.1
Surr: 4-Terphenyl-d14	88.5		100.0	88.5	41
Surr: Nitrobenzene-d5	82.3		100.0	82.3	28.9
					99.9

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 9 of 21

QC SUMMARY REPORT

WO#: 1405068
21-May-14

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.0002

TestCode: Hg_WW

Sample ID:	MB-R15094	SampType:	MBLK	TestCode:	Hg_WW	Units:	mg/L	Prep Date:		RunNo:	15094		
Client ID:	PBW	Batch ID:	7408	TestNo:	E245.2		E245.1	Analysis Date:	5/15/2014	SeqNo:	197895		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		ND	0.000100										

Sample ID:	LCS-R15094	SampType:	LCS	TestCode:	Hg_WW	Units:	mg/L	Prep Date:		RunNo:	15094		
Client ID:	LCSW	Batch ID:	7408	TestNo:	E245.2		E245.1	Analysis Date:	5/15/2014	SeqNo:	197896		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.00394	0.000100	0.004000	0	98.4	80	120					

Sample ID:	1405068-001CDUP	SampType:	DUP	TestCode:	Hg_WW	Units:	mg/L	Prep Date:	5/15/2014	RunNo:	15094		
Client ID:	CB-3	Batch ID:	7408	TestNo:	E245.2		E245.1	Analysis Date:	5/15/2014	SeqNo:	197898		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		ND	0.000200								0	0	20

Sample ID:	1405068-001CMS	SampType:	MS	TestCode:	Hg_WW	Units:	mg/L	Prep Date:	5/15/2014	RunNo:	15094		
Client ID:	CB-3	Batch ID:	7408	TestNo:	E245.2		E245.1	Analysis Date:	5/15/2014	SeqNo:	197899		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.00800	0.000200	0.008000	0	100	75	125					

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 10 of 21

QC SUMMARY REPORT

WO#: 1405068
21-May-14

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.0002

TestCode: Hg_WW

Sample ID: 1405068-001CMSD	SampType: MSD	TestCode: Hg_WW	Units: mg/L	Prep Date: 5/15/2014	RunNo: 15094
Client ID: CB-3	Batch ID: 7408	TestNo: E245.2	E245.1	Analysis Date: 5/15/2014	SeqNo: 197900
Analyte					
Mercury	Result	PQL	SPK value	SPK Ref Val	%REC

Sample ID: CCV	SampType: CCV	TestCode: HG_WW	Units: mg/L	Prep Date:	RunNo: 15094
Client ID: CCV	Batch ID: 7408	TestNo: E245.2	E245.1	Analysis Date: 5/15/2014	SeqNo: 197903
Analyte					
Mercury	Result	PQL	SPK value	SPK Ref Val	%REC

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 11 of 21

QC SUMMARY REPORT

WO#: 1405068
21-May-14

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.0002

TestCode: NWTPHDXL_W

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDXL	Units: mg/L	Prep Date:			RunNo: 15022				
Client ID: CCV	Batch ID: 7377	TestNo: NWTPH-Dx	SW3510B	Analysis Date: 5/12/2014			SeqNo: 197216				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	5.87	0.0800	6.000	0	97.8	85	115				
Lube Oil	2.94	0.200	3.000	0	98.0	85	115				

Sample ID: MB-7377	SampType: MBLK	TestCode: NWTPHDXL	Units: mg/L	Prep Date: 5/9/2014			RunNo: 15022				
Client ID: PBW	Batch ID: 7377	TestNo: NWTPH-Dx	SW3510B	Analysis Date: 5/12/2014			SeqNo: 197217				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	0.0800									
Lube Oil	ND	0.200									
Surr: o-Terphenyl	0.150		0.2000		75.1	50	150				

Sample ID: LCS-7377	SampType: LCS	TestCode: NWTPHDXL	Units: mg/L	Prep Date: 5/9/2014			RunNo: 15022				
Client ID: LCSW	Batch ID: 7377	TestNo: NWTPH-Dx	SW3510B	Analysis Date: 5/12/2014			SeqNo: 197218				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	2.03	0.0800	2.500	0	81.1	60.7	121				
Lube Oil	1.63	0.200	2.500	0	65.4	64	126				

Sample ID: LCSD-7377	SampType: LCSD	TestCode: NWTPHDXL	Units: mg/L	Prep Date: 5/9/2014			RunNo: 15022				
Client ID: LCSS02	Batch ID: 7377	TestNo: NWTPH-Dx	SW3510B	Analysis Date: 5/12/2014			SeqNo: 197219				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSdlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 12 of 21

QC SUMMARY REPORT

WO#: 1405068
21-May-14

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.0002

TestCode: NWTPHDXL_W

Sample ID: LCSD-7377	SampType: LCSD	TestCode: NWTPHDXL	Units: mg/L	Prep Date: 5/9/2014	RunNo: 15022
Client ID: LCSS02	Batch ID: 7377	TestNo: NWTPH-Dx	SW3510B	Analysis Date: 5/12/2014	SeqNo: 197219
Analyte					
Diesel	Result	PQL	SPK value	SPK Ref Val	%REC
Diesel	2.08	0.0800	2.500	0	83.0
Lube Oil	1.89	0.200	2.500	0	75.6
				LowLimit	HighLimit
				121	2.029
				64	14.4
				126	20
				1.635	

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDXL	Units: mg/L	Prep Date:	RunNo: 15022
Client ID: CCV	Batch ID: 7377	TestNo: NWTPH-Dx	SW3510B	Analysis Date: 5/12/2014	SeqNo: 197223
Analyte					
Diesel	Result	PQL	SPK value	SPK Ref Val	%REC
Diesel	7.96	0.0800	8.000	0	99.5
Lube Oil	3.86	0.200	4.000	0	96.4
				LowLimit	HighLimit
				85	115
				85	
				115	

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSdlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 13 of 21

QC SUMMARY REPORT

WO#: 1405068
21-May-14

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.0002

TestCode: NWTPHGX_W

Sample ID: LCS	SampType: LCS	TestCode: NWTPHGX_	Units: µg/L	Prep Date:	RunNo: 15020
Client ID: LCSW	Batch ID: R15020	TestNo: NWTPH-Gx		Analysis Date: 5/9/2014	SeqNo: 197107
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Gasoline	1930	100	2000	0	96.7 74.4 128

Sample ID: MBLK	SampType: MBLK	TestCode: NWTPHGX_	Units: µg/L	Prep Date:	RunNo: 15020
Client ID: PBW	Batch ID: R15020	TestNo: NWTPH-Gx		Analysis Date: 5/9/2014	SeqNo: 197108
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Gasoline	ND	100			
Surr: 4-Bromofluorobenzene	101		100.0		101 50 150

Sample ID: 1405068-003FDUP	SampType: DUP	TestCode: NWTPHGX_	Units: µg/L	Prep Date:	RunNo: 15020
Client ID: CB-South	Batch ID: R15020	TestNo: NWTPH-Gx		Analysis Date: 5/9/2014	SeqNo: 197112
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Gasoline	ND	100			0 0 20

Sample ID: CCV	SampType: CCV	TestCode: NWTPHGX_	Units: µg/L	Prep Date:	RunNo: 15020
Client ID: CCV	Batch ID: R15020	TestNo: NWTPH-Gx		Analysis Date: 5/9/2014	SeqNo: 197113
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Gasoline	3000	100	3000	0	100 80 120

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 14 of 21

QC SUMMARY REPORT

WO#: 1405068
21-May-14

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.0002

TestCode: PAHLL_W

Sample ID: CCV-7367	SampType: CCV	TestCode: PAHLL_W		Units: µg/L		Prep Date:			RunNo: 15014		
Client ID: CCV	Batch ID: 7367	TestNo: SW8270D	SW 3510C	Analysis Date: 5/9/2014			SeqNo: 197069				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	1.94	0.0500	2.000	0	97.2	80	120				
Acenaphthylene	2.00	0.0500	2.000	0	100	80	120				
Anthracene	1.73	0.0500	2.000	0	86.7	80	120				
Benz(a)anthracene	1.91	0.0500	2.000	0	95.3	80	120				
Benzo(a)pyrene	1.89	0.0500	2.000	0	94.4	80	120				
Benzo(b)fluoranthene	2.11	0.0500	2.000	0	106	80	120				
Benzo(g,h,i)perylene	2.08	0.0500	2.000	0	104	80	120				
Benzo(k)fluoranthene	2.18	0.0500	2.000	0	109	80	120				
Chrysene	1.95	0.0500	2.000	0	97.4	80	120				
Dibenz(a,h)anthracene	2.14	0.0500	2.000	0	107	80	120				
Fluoranthene	2.31	0.0500	2.000	0	116	80	120				
Fluorene	2.19	0.0500	2.000	0	110	80	120				
Indeno(1,2,3-cd)pyrene	2.12	0.0500	2.000	0	106	80	120				
Naphthalene	2.02	0.0500	2.000	0	101	80	120				
Phenanthrene	2.01	0.0500	2.000	0	101	80	120				
Pyrene	1.63	0.0500	2.000	0	81.3	80	120				

Sample ID: LCS-7367	SampType: LCS	TestCode: PAHLL_W		Units: µg/L		Prep Date: 5/9/2014			RunNo: 15014		
Client ID: LCSW	Batch ID: 7367	TestNo: SW8270D	SW 3510C	Analysis Date: 5/9/2014			SeqNo: 197070				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	3.52	0.0500	5.000	0	70.5	35.1	100				
Acenaphthylene	3.64	0.0500	5.000	0	72.8	29	89.1				
Anthracene	3.79	0.0500	5.000	0	75.9	42	97.4				

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 15 of 21

QC SUMMARY REPORT

WO#: 1405068
21-May-14

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.0002

TestCode: PAHLL_W

Sample ID: LCS-7367	SampType: LCS	TestCode: PAHLL_W	Units: µg/L	Prep Date: 5/9/2014	RunNo: 15014		
Client ID: LCSW	Batch ID: 7367	TestNo: SW8270D	SW 3510C	Analysis Date: 5/9/2014	SeqNo: 197070		
Analyte							
Benz(a)anthracene	Result	PQL	SPK value	SPK Ref Val	%REC		
3.66	0.0500	5.000	0	73.1	34.2	95.8	
Benzo(a)pyrene		0.0500	5.000	0	73.4	23.4	103
Benzo(b)fluoranthene		0.0500	5.000	0	76.3	36.6	99.5
Benzo(g,h,i)perylene		0.0500	5.000	0	79.0	20.8	120
Benzo(k)fluoranthene		0.0500	5.000	0	81.1	39.7	93.4
Chrysene		0.0500	5.000	0	71.5	39.1	119
Dibenz(a,h)anthracene		0.0500	5.000	0	83.8	5.05	89
Fluoranthene		0.0500	5.000	0	88.5	42.4	95.9
Fluorene		0.0500	5.000	0	77.3	37.4	88.4
Indeno(1,2,3-cd)pyrene		0.0500	5.000	0	79.2	10.5	98.4
Naphthalene		0.0500	5.000	0	60.1	25.6	106
Phenanthrene		0.0500	5.000	0	73.9	38.1	106
Pyrene		0.0500	5.000	0	61.7	41.3	118

Sample ID: LCSD-7367	SampType: LCSD	TestCode: PAHLL_W	Units: µg/L	Prep Date: 5/9/2014	RunNo: 15014					
Client ID: LCSS02	Batch ID: 7367	TestNo: SW8270D	SW 3510C	Analysis Date: 5/9/2014	SeqNo: 197071					
Analyte										
Acenaphthene	Result	PQL	SPK value	SPK Ref Val	%REC					
4.08	0.0500	5.000	0	81.7	35.1	100	3.523	14.7	20	
Acenaphthylene		0.0500	5.000	0	82.9	29	89.1	3.638	13.0	20
Anthracene		0.0500	5.000	0	89.2	42	97.4	3.793	16.2	20
Benz(a)anthracene		0.0500	5.000	0	80.8	34.2	95.8	3.656	9.95	20
Benzo(a)pyrene		0.0500	5.000	0	81.1	23.4	103	3.671	9.91	20
Benzo(b)fluoranthene		0.0500	5.000	0	91.7	36.6	99.5	3.816	18.3	20

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 16 of 21

QC SUMMARY REPORT

WO#: 1405068
21-May-14

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.0002

TestCode: PAHLL_W

Sample ID: LCSD-7367	SampType: LCSD	TestCode: PAHLL_W	Units: µg/L	Prep Date: 5/9/2014	RunNo: 15014
Client ID: LCSS02	Batch ID: 7367	TestNo: SW8270D	SW 3510C	Analysis Date: 5/9/2014	SeqNo: 197071
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Benzo(g,h,i)perylene	4.36	0.0500	5.000	0	87.2
Benzo(k)fluoranthene	4.26	0.0500	5.000	0	85.2
Chrysene	3.97	0.0500	5.000	0	79.3
Dibenz(a,h)anthracene	4.60	0.0500	5.000	0	92.0
Fluoranthene	5.14	0.0500	5.000	0	103
Fluorene	4.39	0.0500	5.000	0	87.9
Indeno(1,2,3-cd)pyrene	4.41	0.0500	5.000	0	88.3
Naphthalene	3.53	0.0500	5.000	0	70.7
Phenanthrene	4.31	0.0500	5.000	0	86.2
Pyrene	3.41	0.0500	5.000	0	68.1
				LowLimit	HighLimit
				RPD Ref Val	RPD Ref Val
				%RPD	RPDLimit
				Qual	

Sample ID: MB-7367	SampType: MBLK	TestCode: PAHLL_W	Units: µg/L	Prep Date: 5/9/2014	RunNo: 15014
Client ID: PBW	Batch ID: 7367	TestNo: SW8270D	SW 3510C	Analysis Date: 5/9/2014	SeqNo: 197072
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Acenaphthene	ND	0.0500			
Acenaphthylene	ND	0.0500			
Anthracene	ND	0.0500			
Benz(a)anthracene	ND	0.0500			
Benzo(a)pyrene	ND	0.0500			
Benzo(b)fluoranthene	ND	0.0500			
Benzo(g,h,i)perylene	ND	0.0500			
Benzo(k)fluoranthene	ND	0.0500			
Chrysene	ND	0.0500			

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 17 of 21

QC SUMMARY REPORT

WO#: 1405068
21-May-14

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.0002

TestCode: PAHLL_W

Sample ID: MB-7367	SampType: MBLK	TestCode: PAHLL_W	Units: µg/L	Prep Date: 5/9/2014	RunNo: 15014						
Client ID: PBW	Batch ID: 7367	TestNo: SW8270D	SW 3510C	Analysis Date: 5/9/2014	SeqNo: 197072						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibenz(a,h)anthracene	ND	0.0500									
Fluoranthene	ND	0.0500									
Fluorene	ND	0.0500									
Indeno(1,2,3-cd)pyrene	ND	0.0500									
Naphthalene	ND	0.0500									
Phenanthrene	ND	0.0500									
Pyrene	ND	0.0500									
Surr: 2-Fluorobiphenyl	0.0897		0.1000		89.7	18.6	106				
Surr: Nitrobenzene-d5	0.0638		0.1000		63.8	17	130				
Surr: Terphenyl-d14	0.151		0.1000		151	39.6	131				S

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 18 of 21

QC SUMMARY REPORT

WO#: 1405068
21-May-14

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.0002

TestCode: TOC_W

Sample ID: LCS-R15154	SampType: LCS	TestCode: TOC_W	Units: mg/L	Prep Date:	RunNo: 15154
Client ID: LCSW	Batch ID: R15154	TestNo: M5310 B		Analysis Date: 5/20/2014	SeqNo: 198474
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Organic Carbon, Total	5.37	1.00	5.000	0	107
				84.1	109

Sample ID: MB-R15154	SampType: MBLK	TestCode: TOC_W	Units: mg/L	Prep Date:	RunNo: 15154
Client ID: PBW	Batch ID: R15154	TestNo: M5310 B		Analysis Date: 5/20/2014	SeqNo: 198475
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Organic Carbon, Total	ND	1.00			

Sample ID: 1405057-001FMS	SampType: MS	TestCode: TOC_W	Units: mg/L	Prep Date:	RunNo: 15154
Client ID: ZZZZZZ	Batch ID: R15154	TestNo: M5310 B		Analysis Date: 5/20/2014	SeqNo: 198477
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Organic Carbon, Total	6.27	1.00	5.000	0.5722	114
				74.7	121

Sample ID: 1405057-001FMSD	SampType: MSD	TestCode: TOC_W	Units: mg/L	Prep Date:	RunNo: 15154
Client ID: ZZZZZZ	Batch ID: R15154	TestNo: M5310 B		Analysis Date: 5/20/2014	SeqNo: 198478
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Organic Carbon, Total	6.26	1.00	5.000	0.5722	114
				74.7	121
				6.268	0.148
					20

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSdlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 19 of 21

QC SUMMARY REPORT

WO#: 1405068
21-May-14

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.0002

TestCode: TOC_W

Sample ID: R15154CCV	SampType: CCV	TestCode: TOC_W	Units: mg/L	Prep Date:	RunNo: 15154
Client ID: CCV	Batch ID: R15154	TestNo: M5310 B		Analysis Date: 5/20/2014	SeqNo: 198484
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Organic Carbon, Total	10.3	1.00	10.00	0	103
				90	110
				%RPD	RPDLimit
					Qual

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 20 of 21

QC SUMMARY REPORT

WO#: 1405068
21-May-14

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.0002

TestCode: TSS_WW

Sample ID: MB-R15029	SampType: MBLK	TestCode: TSS_WW	Units: mg/L	Prep Date:	RunNo: 15029
Client ID: PBW	Batch ID: R15029	TestNo: M2540 D		Analysis Date: 5/9/2014	SeqNo: 197225
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Suspended Solids	ND	5.00			

Sample ID: LCS-R15029	SampType: LCS	TestCode: TSS_WW	Units: mg/L	Prep Date:	RunNo: 15029
Client ID: LCSW	Batch ID: R15029	TestNo: M2540 D		Analysis Date: 5/9/2014	SeqNo: 197226
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Suspended Solids	101	5.00	100.0	0	101 80 105

Sample ID: 1405068-003EDUP	SampType: DUP	TestCode: TSS_WW	Units: mg/L	Prep Date:	RunNo: 15029
Client ID: CB-South	Batch ID: R15029	TestNo: M2540 D		Analysis Date: 5/9/2014	SeqNo: 197236
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Suspended Solids	42.0	5.00			44.00 4.65 20

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 21 of 21

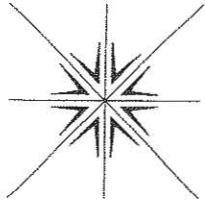
KEY TO FLAGS

Rev. May 12, 2010

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
 - A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
 - A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
 - A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
 - A4 The product appears to be aged or degraded diesel.
 - B The blank exhibited a positive result greater than the reporting limit for this compound.
 - CN See Case Narrative.
 - D Result is based from a dilution.
 - E Result exceeds the calibration range for this compound. The result should be considered as estimate.
 - F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
 - G Result may be biased high due to biogenic interferences. Clean up is recommended.
 - H Sample was analyzed outside recommended holding time.
 - HT At clients request, samples was analyzed outside of recommended holding time.
 - J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
 - K Diesel result is biased high due to amount of Oil contained in the sample.
 - L Diesel result is biased high due to amount of Gasoline contained in the sample.
 - M Oil result is biased high due to amount of Diesel contained in the sample.
 - MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
 - MI Result is outside control limits due to matrix interference.
 - MSA Value determined by Method of Standard Addition.
 - O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
 - Q Detection levels elevated due to sample matrix.
 - R RPD control limits were exceeded.
 - RF Duplicate failed due to result being at or near the method-reporting limit.
 - RP Matrix spike values exceed established QC limits; post digestion spike is in control.
 - S Recovery is outside control limits.
 - SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- * The result for this parameter was greater than the maximum contaminant level of the TCLP regulatory limit.

CHAIN OF CUSTODY RECORD

Page 1 of 1



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Collected By:

Signature:

Printed Chris Kramer

Signature:

Printed _____

Turn Around Time

Normal 5-7 Business Days

Rush _____

Specify

Rush Analyses Must Be Scheduled With The Lab In Advance

Contact Person/Project Manager Chris Kramer

Company *S.R.*

Address 1800 Blankenship Rd
West Linn, OR 970

Phone 503 723 442

Fax

Project No. 108.00895.0002 Project Name Lampros

Project Site Location OR X WA _____ Other _____

Invoice To SLR P.O. No.

Relinquished By: *Chris Krame*
Company: *SIR*

Date 5/9/14 Time 1020

Received By
Company:

Relinquished By:
Company:

Date Time

Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt
Samples held beyond 60 days subject to storage fee(s)

Received For Lab By

Date 5/9/14 Time 10:20

metals = Al, Sb, As, Cd, Cr, Cu, Pb, Mn, Ni, Ag, Zn, Hg



Specialty Analytical

11711 SE Capps Road, Ste B
Clackamas, Oregon 97015
TEL: 503-607-1331 FAX: 503-607-1336
Website: www.specialtyanalytical.com

November 12, 2014

Chris Kramer
SLR International Corp.
1800 Blankenship Rd.
Ste 440
West Linn, OR 97068

TEL: (503) 723-4423
FAX
RE: Lampros / 108.00895.00002

Dear Chris Kramer:

Order No.: 1410103

Specialty Analytical received 8 sample(s) on 10/15/2014 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications, except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

Marty French
Lab Director

Case Narrative

WO#: **1410103**

Date: **11/12/2014**

CLIENT: SLR International Corp.

Project: Lampros / 108.00895.00002

Due to instrument issues, some or all of the metals on this report were sent to an outside lab. Any results from the subcontracted lab will be attached at the end of this report.

Specialty Analytical

Date Reported: 12-Nov-14

CLIENT: SLR International Corp. Collection Date: 10/15/2014 9:50:00 AM

Project: Lampros / 108.00895.00002

Lab ID: 1410103-001

Client Sample ID: CB-52-Pre

Matrix: STORM WATER

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX - RBC		NWTPH-DX				Analyst: BS
Diesel	0.558	0.0800	K	mg/L	1	10/16/2014 8:31:27 PM
Lube Oil	2.18	0.200		mg/L	1	10/16/2014 8:31:27 PM
Surr: o-Terphenyl	139	50-150		%REC	1	10/16/2014 8:31:27 PM
NWTPH-GX		NWTPH-GX				Analyst: BS
Gasoline	ND	100		µg/L	1	10/17/2014 4:15:42 PM
Surr: 4-Bromofluorobenzene	120	50-150		%REC	1	10/17/2014 4:15:42 PM
TOTAL MERCURY-AQUEOUS	E245.2					Analyst: KP
Mercury	ND	0.000100		mg/L	1	10/17/2014 12:04:00 PM
SEMI-VOLATILE COMPOUNDS - BASE/NEUTRAL SW8270D						Analyst: bda
Bis(2-ethylhexyl)phthalate	2.17	0.975		µg/L	1	10/20/2014 3:39:00 PM
Butyl benzyl phthalate	ND	0.975		µg/L	1	10/20/2014 3:39:00 PM
Diethyl phthalate	ND	0.975		µg/L	1	10/20/2014 3:39:00 PM
Dimethyl phthalate	ND	0.975		µg/L	1	10/20/2014 3:39:00 PM
Di-n-butyl phthalate	ND	0.975		µg/L	1	10/20/2014 3:39:00 PM
Di-n-octyl phthalate	ND	0.975		µg/L	1	10/20/2014 3:39:00 PM
Surr: 2-Fluorobiphenyl	69.9	33.1-96.2		%REC	1	10/20/2014 3:39:00 PM
Surr: 4-Terphenyl-d14	116	41-122		%REC	1	10/20/2014 3:39:00 PM
Surr: Nitrobenzene-d5	72.1	28.9-99.9		%REC	1	10/20/2014 3:39:00 PM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: bda
Acenaphthene	ND	0.0480		µg/L	1	10/16/2014 10:58:00 AM
Acenaphthylene	ND	0.0480		µg/L	1	10/16/2014 10:58:00 AM
Anthracene	ND	0.0480		µg/L	1	10/16/2014 10:58:00 AM
Benz(a)anthracene	0.0795	0.0480		µg/L	1	10/16/2014 10:58:00 AM
Benzo(a)pyrene	0.0708	0.0480		µg/L	1	10/16/2014 10:58:00 AM
Benzo(b)fluoranthene	0.147	0.0480		µg/L	1	10/16/2014 10:58:00 AM
Benzo(g,h,i)perylene	0.0864	0.0480		µg/L	1	10/16/2014 10:58:00 AM
Benzo(k)fluoranthene	ND	0.0480		µg/L	1	10/16/2014 10:58:00 AM
Chrysene	0.105	0.0480		µg/L	1	10/16/2014 10:58:00 AM
Dibenz(a,h)anthracene	ND	0.0480		µg/L	1	10/16/2014 10:58:00 AM
Fluoranthene	0.157	0.0480		µg/L	1	10/16/2014 10:58:00 AM
Fluorene	ND	0.0480		µg/L	1	10/16/2014 10:58:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.0480		µg/L	1	10/16/2014 10:58:00 AM
Naphthalene	ND	0.0480		µg/L	1	10/16/2014 10:58:00 AM
Phenanthrene	0.0964	0.0480		µg/L	1	10/16/2014 10:58:00 AM
Pyrene	0.164	0.0480		µg/L	1	10/16/2014 10:58:00 AM

Specialty Analytical

Date Reported: 12-Nov-14

CLIENT: SLR International Corp. **Collection Date:** 10/15/2014 9:50:00 AM

Project: Lampros / 108.00895.00002

Lab ID: 1410103-001

Client Sample ID: CB-52-Pre

Matrix: STORM WATER

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: bda
Surr: 2-Fluorobiphenyl	67.4	18.6-106		%REC	1	10/16/2014 10:58:00 AM
Surr: Nitrobenzene-d5	70.8	17-130		%REC	1	10/16/2014 10:58:00 AM
Surr: Terphenyl-d14	80.4	39.6-131		%REC	1	10/16/2014 10:58:00 AM
PCB'S IN LIQUID		SW 8082A				Analyst: JRC
Aroclor 1016	ND	0.0183		µg/L	1	10/17/2014 8:34:00 PM
Aroclor 1221	ND	0.0183		µg/L	1	10/17/2014 8:34:00 PM
Aroclor 1232	ND	0.0183		µg/L	1	10/17/2014 8:34:00 PM
Aroclor 1242	ND	0.0183		µg/L	1	10/17/2014 8:34:00 PM
Aroclor 1248	ND	0.0183		µg/L	1	10/17/2014 8:34:00 PM
Aroclor 1254	ND	0.0183		µg/L	1	10/17/2014 8:34:00 PM
Aroclor 1260	ND	0.0183		µg/L	1	10/17/2014 8:34:00 PM
Aroclor 1262	ND	0.0183		µg/L	1	10/17/2014 8:34:00 PM
Aroclor 1268	ND	0.0183		µg/L	1	10/17/2014 8:34:00 PM
Surr: Decachlorobiphenyl	73.1	45-107		%REC	1	10/17/2014 8:34:00 PM
SUB CONTRACTING		SUB_CONTRACTING				Analyst: sub
Total Metals	See Attached Rpt	0			1	11/7/2014
ORGANIC CARBON, TOTAL		M5310 B				Analyst: EFH
Organic Carbon, Total	11.5	1.00		mg/L	1	10/20/2014 9:12:38 PM
TOTAL SUSPENDED SOLIDS		M2540 D				Analyst: BW
Total Suspended Solids	17.0	5.00		mg/L	1	10/16/2014 8:38:18 AM

Specialty Analytical

Date Reported: 12-Nov-14

CLIENT:	SLR International Corp.	Collection Date:	10/15/2014 10:00:00 AM
Project:	Lampros / 108.00895.00002		
Lab ID:	1410103-002		
Client Sample ID:	CB-52-Post	Matrix:	STORM WATER

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX - RBC						
Diesel	0.615	0.0800	K	mg/L	1	10/16/2014 9:01:27 PM
Lube Oil	2.42	0.200		mg/L	1	10/16/2014 9:01:27 PM
Surr: o-Terphenyl	123	50-150		%REC	1	10/16/2014 9:01:27 PM
NWTPH-GX						
Gasoline	170	100		µg/L	1	10/17/2014 4:45:42 PM
Surr: 4-Bromofluorobenzene	119	50-150		%REC	1	10/17/2014 4:45:42 PM
TOTAL MERCURY-AQUEOUS						
Mercury	ND	0.000100		mg/L	1	10/17/2014 12:06:00 PM
SEMI-VOLATILE COMPOUNDS - BASE/NEUTRAL SW8270D						
Bis(2-ethylhexyl)phthalate	3.41	0.948		µg/L	1	10/20/2014 4:08:00 PM
Butyl benzyl phthalate	ND	0.948		µg/L	1	10/20/2014 4:08:00 PM
Diethyl phthalate	ND	0.948		µg/L	1	10/20/2014 4:08:00 PM
Dimethyl phthalate	ND	0.948		µg/L	1	10/20/2014 4:08:00 PM
Di-n-butyl phthalate	ND	0.948		µg/L	1	10/20/2014 4:08:00 PM
Di-n-octyl phthalate	ND	0.948		µg/L	1	10/20/2014 4:08:00 PM
Surr: 2-Fluorobiphenyl	77.6	33.1-96.2		%REC	1	10/20/2014 4:08:00 PM
Surr: 4-Terphenyl-d14	97.6	41-122		%REC	1	10/20/2014 4:08:00 PM
Surr: Nitrobenzene-d5	80.3	28.9-99.9		%REC	1	10/20/2014 4:08:00 PM
PAH'S BY GC/MS - LOW LEVEL						
		SW8270D				Analyst: bda
Acenaphthene	ND	0.0495		µg/L	1	10/16/2014 11:23:00 AM
Acenaphthylene	ND	0.0495		µg/L	1	10/16/2014 11:23:00 AM
Anthracene	ND	0.0495		µg/L	1	10/16/2014 11:23:00 AM
Benz(a)anthracene	0.0893	0.0495		µg/L	1	10/16/2014 11:23:00 AM
Benzo(a)pyrene	0.0911	0.0495		µg/L	1	10/16/2014 11:23:00 AM
Benzo(b)fluoranthene	0.181	0.0495		µg/L	1	10/16/2014 11:23:00 AM
Benzo(g,h,i)perylene	0.0995	0.0495		µg/L	1	10/16/2014 11:23:00 AM
Benzo(k)fluoranthene	ND	0.0495		µg/L	1	10/16/2014 11:23:00 AM
Chrysene	0.117	0.0495		µg/L	1	10/16/2014 11:23:00 AM
Dibenz(a,h)anthracene	ND	0.0495		µg/L	1	10/16/2014 11:23:00 AM
Fluoranthene	0.191	0.0495		µg/L	1	10/16/2014 11:23:00 AM
Fluorene	ND	0.0495		µg/L	1	10/16/2014 11:23:00 AM
Indeno(1,2,3-cd)pyrene	0.0694	0.0495		µg/L	1	10/16/2014 11:23:00 AM
Naphthalene	ND	0.0495		µg/L	1	10/16/2014 11:23:00 AM
Phenanthrene	0.106	0.0495		µg/L	1	10/16/2014 11:23:00 AM
Pyrene	0.203	0.0495		µg/L	1	10/16/2014 11:23:00 AM

Specialty Analytical

Date Reported: 12-Nov-14

CLIENT: SLR International Corp. **Collection Date:** 10/15/2014 10:00:00 AM

Project: Lampros / 108.00895.00002

Lab ID: 1410103-002

Client Sample ID: CB-52-Post

Matrix: STORM WATER

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: bda
Surr: 2-Fluorobiphenyl	72.3	18.6-106	%REC	1	10/16/2014 11:23:00 AM	
Surr: Nitrobenzene-d5	75.2	17-130	%REC	1	10/16/2014 11:23:00 AM	
Surr: Terphenyl-d14	87.7	39.6-131	%REC	1	10/16/2014 11:23:00 AM	
PCB'S IN LIQUID		SW 8082A				Analyst: JRC
Aroclor 1016	ND	0.0185	µg/L	1	10/17/2014 8:50:00 PM	
Aroclor 1221	ND	0.0185	µg/L	1	10/17/2014 8:50:00 PM	
Aroclor 1232	ND	0.0185	µg/L	1	10/17/2014 8:50:00 PM	
Aroclor 1242	ND	0.0185	µg/L	1	10/17/2014 8:50:00 PM	
Aroclor 1248	ND	0.0185	µg/L	1	10/17/2014 8:50:00 PM	
Aroclor 1254	ND	0.0185	µg/L	1	10/17/2014 8:50:00 PM	
Aroclor 1260	ND	0.0185	µg/L	1	10/17/2014 8:50:00 PM	
Aroclor 1262	ND	0.0185	µg/L	1	10/17/2014 8:50:00 PM	
Aroclor 1268	ND	0.0185	µg/L	1	10/17/2014 8:50:00 PM	
Surr: Decachlorobiphenyl	78.8	45-107	%REC	1	10/17/2014 8:50:00 PM	
SUB CONTRACTING		SUB_CONTRACTING				Analyst: sub
Total Metals	See Attached Rpt	0		1	11/7/2014	
ORGANIC CARBON, TOTAL		M5310 B				Analyst: EFH
Organic Carbon, Total	10.5	1.00	mg/L	1	10/20/2014 9:42:38 PM	
TOTAL SUSPENDED SOLIDS		M2540 D				Analyst: BW
Total Suspended Solids	26.0	5.00	mg/L	1	10/16/2014 8:40:18 AM	

Specialty Analytical

Date Reported: 12-Nov-14

CLIENT:	SLR International Corp.	Collection Date:	10/15/2014 10:15:00 AM
Project:	Lampros / 108.00895.00002		
Lab ID:	1410103-003		
Client Sample ID:	CB-3-Pre	Matrix:	STORM WATER

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX - RBC						
Diesel	1.09	0.0800	K	mg/L	1	10/16/2014 9:31:27 PM
Lube Oil	4.02	0.200		mg/L	1	10/16/2014 9:31:27 PM
Surr: o-Terphenyl	145	50-150		%REC	1	10/16/2014 9:31:27 PM
NWTPH-GX						
Gasoline	ND	100		µg/L	1	10/17/2014 5:15:42 PM
Surr: 4-Bromofluorobenzene	119	50-150		%REC	1	10/17/2014 5:15:42 PM
TOTAL MERCURY-AQUEOUS						
Mercury	ND	0.000100		mg/L	1	10/17/2014 12:08:00 PM
SEMI-VOLATILE COMPOUNDS - BASE/NEUTRAL SW8270D						
Bis(2-ethylhexyl)phthalate	3.91	0.954		µg/L	1	10/20/2014 4:37:00 PM
Butyl benzyl phthalate	ND	0.954		µg/L	1	10/20/2014 4:37:00 PM
Diethyl phthalate	ND	0.954		µg/L	1	10/20/2014 4:37:00 PM
Dimethyl phthalate	ND	0.954		µg/L	1	10/20/2014 4:37:00 PM
Di-n-butyl phthalate	ND	0.954		µg/L	1	10/20/2014 4:37:00 PM
Di-n-octyl phthalate	ND	0.954		µg/L	1	10/20/2014 4:37:00 PM
Surr: 2-Fluorobiphenyl	80.2	33.1-96.2		%REC	1	10/20/2014 4:37:00 PM
Surr: 4-Terphenyl-d14	107	41-122		%REC	1	10/20/2014 4:37:00 PM
Surr: Nitrobenzene-d5	77.3	28.9-99.9		%REC	1	10/20/2014 4:37:00 PM
PAH'S BY GC/MS - LOW LEVEL						
		SW8270D				Analyst: bda
Acenaphthene	ND	0.0493		µg/L	1	10/16/2014 11:47:00 AM
Acenaphthylene	ND	0.0493		µg/L	1	10/16/2014 11:47:00 AM
Anthracene	ND	0.0493		µg/L	1	10/16/2014 11:47:00 AM
Benz(a)anthracene	ND	0.0493		µg/L	1	10/16/2014 11:47:00 AM
Benzo(a)pyrene	0.0630	0.0493		µg/L	1	10/16/2014 11:47:00 AM
Benzo(b)fluoranthene	0.0992	0.0493		µg/L	1	10/16/2014 11:47:00 AM
Benzo(g,h,i)perylene	0.107	0.0493		µg/L	1	10/16/2014 11:47:00 AM
Benzo(k)fluoranthene	ND	0.0493		µg/L	1	10/16/2014 11:47:00 AM
Chrysene	0.0557	0.0493		µg/L	1	10/16/2014 11:47:00 AM
Dibenz(a,h)anthracene	ND	0.0493		µg/L	1	10/16/2014 11:47:00 AM
Fluoranthene	0.122	0.0493		µg/L	1	10/16/2014 11:47:00 AM
Fluorene	ND	0.0493		µg/L	1	10/16/2014 11:47:00 AM
Indeno(1,2,3-cd)pyrene	0.0590	0.0493		µg/L	1	10/16/2014 11:47:00 AM
Naphthalene	ND	0.0493		µg/L	1	10/16/2014 11:47:00 AM
Phenanthrene	0.0907	0.0493		µg/L	1	10/16/2014 11:47:00 AM
Pyrene	0.189	0.0493		µg/L	1	10/16/2014 11:47:00 AM

Specialty Analytical

Date Reported: 12-Nov-14

CLIENT: SLR International Corp. **Collection Date:** 10/15/2014 10:15:00 AM

Project: Lampros / 108.00895.00002

Lab ID: 1410103-003

Client Sample ID: CB-3-Pre

Matrix: STORM WATER

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: bda
Surr: 2-Fluorobiphenyl	59.5	18.6-106	%REC		1	10/16/2014 11:47:00 AM
Surr: Nitrobenzene-d5	60.3	17-130	%REC		1	10/16/2014 11:47:00 AM
Surr: Terphenyl-d14	67.3	39.6-131	%REC		1	10/16/2014 11:47:00 AM
PCB'S IN LIQUID		SW 8082A				Analyst: JRC
Aroclor 1016	ND	0.0182	µg/L		1	10/17/2014 9:07:00 PM
Aroclor 1221	ND	0.0182	µg/L		1	10/17/2014 9:07:00 PM
Aroclor 1232	ND	0.0182	µg/L		1	10/17/2014 9:07:00 PM
Aroclor 1242	ND	0.0182	µg/L		1	10/17/2014 9:07:00 PM
Aroclor 1248	ND	0.0182	µg/L		1	10/17/2014 9:07:00 PM
Aroclor 1254	ND	0.0182	µg/L		1	10/17/2014 9:07:00 PM
Aroclor 1260	ND	0.0182	µg/L		1	10/17/2014 9:07:00 PM
Aroclor 1262	ND	0.0182	µg/L		1	10/17/2014 9:07:00 PM
Aroclor 1268	ND	0.0182	µg/L		1	10/17/2014 9:07:00 PM
Surr: Decachlorobiphenyl	64.8	45-107	%REC		1	10/17/2014 9:07:00 PM
SUB CONTRACTING		SUB_CONTRACTING				Analyst: sub
Total Metals	See Attached Rpt	0			1	11/7/2014
ORGANIC CARBON, TOTAL		M5310 B				Analyst: EFH
Organic Carbon, Total	8.29	1.00	mg/L		1	10/20/2014 10:12:38 PM
TOTAL SUSPENDED SOLIDS		M2540 D				Analyst: BW
Total Suspended Solids	172	5.00	mg/L		1	10/16/2014 8:44:18 AM

Specialty Analytical

Date Reported: 12-Nov-14

CLIENT: SLR International Corp. Collection Date: 10/15/2014 10:30:00 AM

Project: Lampros / 108.00895.00002

Lab ID: 1410103-004

Client Sample ID: CB-3-Post

Matrix: STORM WATER

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX - RBC		NWTPH-DX				Analyst: BS
Diesel	0.979	0.0800	K	mg/L	1	10/16/2014 10:01:27 PM
Lube Oil	3.83	0.200		mg/L	1	10/16/2014 10:01:27 PM
Surr: o-Terphenyl	147	50-150		%REC	1	10/16/2014 10:01:27 PM
NWTPH-GX		NWTPH-GX				Analyst: BS
Gasoline	ND	100		µg/L	1	10/17/2014 5:45:42 PM
Surr: 4-Bromofluorobenzene	119	50-150		%REC	1	10/17/2014 5:45:42 PM
TOTAL MERCURY-AQUEOUS	E245.2					Analyst: KP
Mercury	ND	0.000100		mg/L	1	10/17/2014 12:10:00 PM
SEMI-VOLATILE COMPOUNDS - BASE/NEUTRAL SW8270D						Analyst: bda
Bis(2-ethylhexyl)phthalate	2.74	0.956		µg/L	1	10/20/2014 5:06:00 PM
Butyl benzyl phthalate	ND	0.956		µg/L	1	10/20/2014 5:06:00 PM
Diethyl phthalate	ND	0.956		µg/L	1	10/20/2014 5:06:00 PM
Dimethyl phthalate	ND	0.956		µg/L	1	10/20/2014 5:06:00 PM
Di-n-butyl phthalate	ND	0.956		µg/L	1	10/20/2014 5:06:00 PM
Di-n-octyl phthalate	ND	0.956		µg/L	1	10/20/2014 5:06:00 PM
Surr: 2-Fluorobiphenyl	74.3	33.1-96.2		%REC	1	10/20/2014 5:06:00 PM
Surr: 4-Terphenyl-d14	102	41-122		%REC	1	10/20/2014 5:06:00 PM
Surr: Nitrobenzene-d5	72.7	28.9-99.9		%REC	1	10/20/2014 5:06:00 PM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: bda
Acenaphthene	ND	0.0472		µg/L	1	10/16/2014 12:12:00 PM
Acenaphthylene	ND	0.0472		µg/L	1	10/16/2014 12:12:00 PM
Anthracene	ND	0.0472		µg/L	1	10/16/2014 12:12:00 PM
Benz(a)anthracene	ND	0.0472		µg/L	1	10/16/2014 12:12:00 PM
Benzo(a)pyrene	0.0700	0.0472		µg/L	1	10/16/2014 12:12:00 PM
Benzo(b)fluoranthene	0.111	0.0472		µg/L	1	10/16/2014 12:12:00 PM
Benzo(g,h,i)perylene	0.109	0.0472		µg/L	1	10/16/2014 12:12:00 PM
Benzo(k)fluoranthene	ND	0.0472		µg/L	1	10/16/2014 12:12:00 PM
Chrysene	0.0833	0.0472		µg/L	1	10/16/2014 12:12:00 PM
Dibenz(a,h)anthracene	ND	0.0472		µg/L	1	10/16/2014 12:12:00 PM
Fluoranthene	0.130	0.0472		µg/L	1	10/16/2014 12:12:00 PM
Fluorene	ND	0.0472		µg/L	1	10/16/2014 12:12:00 PM
Indeno(1,2,3-cd)pyrene	0.0516	0.0472		µg/L	1	10/16/2014 12:12:00 PM
Naphthalene	ND	0.0472		µg/L	1	10/16/2014 12:12:00 PM
Phenanthrene	0.111	0.0472		µg/L	1	10/16/2014 12:12:00 PM
Pyrene	0.222	0.0472		µg/L	1	10/16/2014 12:12:00 PM

Specialty Analytical

Date Reported: 12-Nov-14

CLIENT: SLR International Corp. **Collection Date:** 10/15/2014 10:30:00 AM

Project: Lampros / 108.00895.00002

Lab ID: 1410103-004

Client Sample ID: CB-3-Post

Matrix: STORM WATER

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: bda
Surr: 2-Fluorobiphenyl	62.0	18.6-106	%REC		1	10/16/2014 12:12:00 PM
Surr: Nitrobenzene-d5	63.6	17-130	%REC		1	10/16/2014 12:12:00 PM
Surr: Terphenyl-d14	77.4	39.6-131	%REC		1	10/16/2014 12:12:00 PM
PCB'S IN LIQUID		SW 8082A				Analyst: JRC
Aroclor 1016	ND	0.0226	µg/L		1	10/17/2014 9:24:00 PM
Aroclor 1221	ND	0.0226	µg/L		1	10/17/2014 9:24:00 PM
Aroclor 1232	ND	0.0226	µg/L		1	10/17/2014 9:24:00 PM
Aroclor 1242	ND	0.0226	µg/L		1	10/17/2014 9:24:00 PM
Aroclor 1248	ND	0.0226	µg/L		1	10/17/2014 9:24:00 PM
Aroclor 1254	ND	0.0226	µg/L		1	10/17/2014 9:24:00 PM
Aroclor 1260	ND	0.0226	µg/L		1	10/17/2014 9:24:00 PM
Aroclor 1262	ND	0.0226	µg/L		1	10/17/2014 9:24:00 PM
Aroclor 1268	ND	0.0226	µg/L		1	10/17/2014 9:24:00 PM
Surr: Decachlorobiphenyl	75.4	45-107	%REC		1	10/17/2014 9:24:00 PM
SUB CONTRACTING		SUB_CONTRACTING				Analyst: sub
Total Metals	See Attached Rpt	0			1	11/7/2014
ORGANIC CARBON, TOTAL		M5310 B				Analyst: EFH
Organic Carbon, Total	9.51	1.00	mg/L		1	10/20/2014 10:42:38 PM
TOTAL SUSPENDED SOLIDS		M2540 D				Analyst: BW
Total Suspended Solids	100	5.00	mg/L		1	10/16/2014 8:46:18 AM

Specialty Analytical

Date Reported: 12-Nov-14

CLIENT: SLR International Corp. **Collection Date:** 10/15/2014 10:45:00 AM

Project: Lampros / 108.00895.00002

Lab ID: 1410103-005

Client Sample ID: CB-9

Matrix: STORM WATER

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
TOTAL SUSPENDED SOLIDS Total Suspended Solids	M2540 D 141	5.00		mg/L	1	Analyst: BW 10/16/2014 8:48:18 AM

Specialty Analytical

Date Reported: 12-Nov-14

CLIENT: SLR International Corp. **Collection Date:** 10/15/2014 10:50:00 AM

Project: Lampros / 108.00895.00002

Lab ID: 1410103-006

Client Sample ID: CB-5

Matrix: STORM WATER

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
TOTAL SUSPENDED SOLIDS Total Suspended Solids	M2540 D 310	5.00		mg/L	1	Analyst: BW 10/16/2014 8:50:18 AM

Specialty Analytical

Date Reported: 12-Nov-14

CLIENT: SLR International Corp. **Collection Date:** 10/15/2014 10:55:00 AM

Project: Lampros / 108.00895.00002

Lab ID: 1410103-007

Client Sample ID: CB-1-Pre

Matrix: STORM WATER

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
TOTAL SUSPENDED SOLIDS Total Suspended Solids	M2540 D 542	5.00		mg/L	1	Analyst: BW 10/16/2014 8:52:18 AM

Specialty Analytical

Date Reported: 12-Nov-14

CLIENT: SLR International Corp. **Collection Date:** 10/15/2014 11:00:00 AM

Project: Lampros / 108.00895.00002

Lab ID: 1410103-008

Client Sample ID: CB-1-Post

Matrix: STORM WATER

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
TOTAL SUSPENDED SOLIDS Total Suspended Solids	M2540 D 573	5.00		mg/L	1	Analyst: BW 10/16/2014 8:54:18 AM

QC SUMMARY REPORT

WO#: 1410103
12-Nov-14

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: 8082LL_W

Sample ID: CCV 1016/1260@1	SampType: CCV	TestCode: 8082LL_W	Units: µg/L	Prep Date:			RunNo: 17356				
Client ID: CCV	Batch ID: 8348	TestNo: SW 8082A	SW3510_PCB	Analysis Date: 10/17/2014			SeqNo: 227719				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1260	2.05	0.0200	2.000	0	103	85	115				

Sample ID: MB-8348	SampType: MBLK	TestCode: 8082LL_W	Units: µg/L	Prep Date: 10/16/2014			RunNo: 17356				
Client ID: PBW	Batch ID: 8348	TestNo: SW 8082A	SW3510_PCB	Analysis Date: 10/17/2014			SeqNo: 227720				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.0200									
Aroclor 1221	ND	0.0200									
Aroclor 1232	ND	0.0200									
Aroclor 1242	ND	0.0200									
Aroclor 1248	ND	0.0200									
Aroclor 1254	ND	0.0200									
Aroclor 1260	ND	0.0200									
Aroclor 1262	ND	0.0200									
Aroclor 1268	ND	0.0200									
Surr: Decachlorobiphenyl	138		200.0		68.8	45	107				

Sample ID: LCS-8348	SampType: LCS	TestCode: 8082LL_W	Units: µg/L	Prep Date: 10/16/2014			RunNo: 17356				
Client ID: LCSW	Batch ID: 8348	TestNo: SW 8082A	SW3510_PCB	Analysis Date: 10/17/2014			SeqNo: 227721				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1260	1.44	0.0200	2.000	0	71.8	40.4	110				

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recover

Page 1 of 18

QC SUMMARY REPORT

WO#: 1410103
12-Nov-14

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.00002

TestCode: 8082LL_W

Sample ID: LCSD-8348	SampType: LCSD	TestCode: 8082LL_W	Units: µg/L	Prep Date: 10/16/2014	RunNo: 17356
Client ID: LCSS02	Batch ID: 8348	TestNo: SW 8082A	SW3510_PCB	Analysis Date: 10/17/2014	SeqNo: 227722

QC SUMMARY REPORT

WO#: 1410103
12-Nov-14

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: 8270BN_W

Sample ID: CCV-8355	SampType: CCV	TestCode: 8270BN_W	Units: µg/L	Prep Date:			RunNo: 17364				
Client ID: CCV	Batch ID: 8355	TestNo: SW8270D	SW 3510C	Analysis Date: 10/20/2014			SeqNo: 227776				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Di-n-octyl phthalate	47.2	1.00	40.00	0	118	80	120				

Sample ID: MB-8355	SampType: MBLK	TestCode: 8270BN_W	Units: µg/L	Prep Date: 10/17/2014			RunNo: 17364				
Client ID: PBW	Batch ID: 8355	TestNo: SW8270D	SW 3510C	Analysis Date: 10/20/2014			SeqNo: 227842				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl)phthalate	ND	1.00									
Butyl benzyl phthalate	ND	1.00									
Diethyl phthalate	ND	1.00									
Dimethyl phthalate	ND	1.00									
Di-n-butyl phthalate	ND	1.00									
Di-n-octyl phthalate	ND	1.00									
Surrogate: 2-Fluorobiphenyl	78.8		100.0		78.8	33.1	96.2				
Surrogate: 4-Terphenyl-d14	129		100.0		129	41	122				S
Surrogate: Nitrobenzene-d5	82.0		100.0		82.0	28.9	99.9				

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recover

Page 3 of 18

QC SUMMARY REPORT

WO#: 1410103
12-Nov-14

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: Hg_WW

Sample ID:	MB-8350	SampType:	MBLK	TestCode:	Hg_WW	Units:	mg/L	Prep Date:	10/17/2014	RunNo:	17353	
Client ID:	PBW	Batch ID:	8350	TestNo:	E245.2		E245.1	Analysis Date:	10/17/2014	SeqNo:	227677	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		ND		0.000100								

Sample ID:	LCS-8350	SampType:	LCS	TestCode:	Hg_WW	Units:	mg/L	Prep Date:	10/17/2014	RunNo:	17353	
Client ID:	LCSW	Batch ID:	8350	TestNo:	E245.2		E245.1	Analysis Date:	10/17/2014	SeqNo:	227678	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.00400	0.000100	0.004000	0	100	80	120				

Sample ID:	CCV	SampType:	CCV	TestCode:	HG_WW	Units:	mg/L	Prep Date:		RunNo:	17353	
Client ID:	CCV	Batch ID:	8350	TestNo:	E245.2		E245.1	Analysis Date:	10/17/2014	SeqNo:	227684	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.00419	0.000100	0.004000	0	105	90	110				

Sample ID:	A1410126-001ADUP	SampType:	DUP	TestCode:	HG_WW	Units:	mg/L	Prep Date:		RunNo:	17353	
Client ID:	ZZZZZZ	Batch ID:	8350	TestNo:	E245.2		E245.1	Analysis Date:	10/17/2014	SeqNo:	227686	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		ND	0.000100						0	0	20	

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSdlimit H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recover

Page 4 of 18

QC SUMMARY REPORT

WO#: 1410103
12-Nov-14

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: Hg_WW

Sample ID: A1410126-001AMS	SampType: MS	TestCode: HG_WW	Units: mg/L	Prep Date:			RunNo: 17353				
Client ID: ZZZZZZ	Batch ID: 8350	TestNo: E245.2	E245.1	Analysis Date: 10/17/2014			SeqNo: 227688				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00386	0.000100	0.004000	0	96.6	75	125				

Sample ID: A1410126-001AMSD	SampType: MSD	TestCode: HG_WW	Units: mg/L	Prep Date:			RunNo: 17353				
Client ID: ZZZZZZ	Batch ID: 8350	TestNo: E245.2	E245.1	Analysis Date: 10/17/2014			SeqNo: 227689				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00381	0.000100	0.004000	0	95.2	75	125	0.003863	1.49	20	

Sample ID: CCV	SampType: CCV	TestCode: HG_WW	Units: mg/L	Prep Date:			RunNo: 17353				
Client ID: CCV	Batch ID: 8350	TestNo: E245.2	E245.1	Analysis Date: 10/17/2014			SeqNo: 227690				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00428	0.000100	0.004000	0	107	90	110				

Sample ID: CCV	SampType: CCV	TestCode: HG_WW	Units: mg/L	Prep Date:			RunNo: 17353				
Client ID: CCV	Batch ID: 8350	TestNo: E245.2	E245.1	Analysis Date: 10/17/2014			SeqNo: 227691				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00438	0.000100	0.004000	0	109	90	110				

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded			ND	Not Detected at the Reporting Limit			Page 5 of 18
	O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits			S	Spike Recovery outside accepted recover			

QC SUMMARY REPORT

WO#: 1410103
12-Nov-14

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: NWTPHDXL_W

Sample ID:	CCV	SampType:	CCV	TestCode:	NWTPHDXL	Units:	mg/L	Prep Date:			RunNo: 17319			
Client ID:	CCV	Batch ID:	8344	TestNo:	NWTPH-Dx	SW3510B		Analysis Date:			10/16/2014	SeqNo: 227353		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Diesel		5.79	0.0800	6.000	0	96.5	85	115						
Lube Oil		3.37	0.200	3.000	0	112	85	115						

Sample ID:	MB-8344	SampType:	MBLK	TestCode:	NWTPHDXL	Units:	mg/L	Prep Date:			10/16/2014	RunNo: 17319		
Client ID:	PBW	Batch ID:	8344	TestNo:	NWTPH-Dx	SW3510B		Analysis Date:			10/16/2014	SeqNo: 227354		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Diesel		ND	0.0800											
Lube Oil		ND	0.200											
Surr: o-Terphenyl		0.208		0.2000		104	50	150						

Sample ID:	LCS-8344	SampType:	LCS	TestCode:	NWTPHDXL	Units:	mg/L	Prep Date:			10/16/2014	RunNo: 17319		
Client ID:	LCSW	Batch ID:	8344	TestNo:	NWTPH-Dx	SW3510B		Analysis Date:			10/16/2014	SeqNo: 227355		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Diesel		0.972	0.0800	1.000	0	97.2	60.7	121						
Lube Oil		1.24	0.200	1.000	0	124	64	126						

Sample ID:	LCSD-8344	SampType:	LCSD	TestCode:	NWTPHDXL	Units:	mg/L	Prep Date:			10/16/2014	RunNo: 17319		
Client ID:	LCSS02	Batch ID:	8344	TestNo:	NWTPH-Dx	SW3510B		Analysis Date:			10/16/2014	SeqNo: 227356		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recover

Page 6 of 18

QC SUMMARY REPORT

WO#: 1410103
12-Nov-14

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: NWTPHDXL_W

Sample ID: LCSD-8344	SampType: LCSD	TestCode: NWTPHDXL	Units: mg/L	Prep Date: 10/16/2014	RunNo: 17319
Client ID: LCSS02	Batch ID: 8344	TestNo: NWTPH-Dx	SW3510B	Analysis Date: 10/16/2014	SeqNo: 227356
Analyte					
Diesel	Result	PQL	SPK value	SPK Ref Val	%REC
1.05	0.0800	1.000	0	105	60.7
Lube Oil		0.200	1.000	0	118
				64	121
				126	0.9718
				1.236	4.83
				20	8.03
					20

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDXL	Units: mg/L	Prep Date:	RunNo: 17319
Client ID: CCV	Batch ID: 8344	TestNo: NWTPH-Dx	SW3510B	Analysis Date: 10/16/2014	SeqNo: 227368
Analyte					
Diesel	Result	PQL	SPK value	SPK Ref Val	%REC
7.17	0.0800	8.000	0	89.6	85
Lube Oil		0.200	4.000	0	104
				85	115
				115	

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSdlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recover

Page 7 of 18

QC SUMMARY REPORT

WO#: 1410103
12-Nov-14

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: NWTPHGX_W

Sample ID: CCV	SampType: CCV	TestCode: NWTPHGX_W	Units: µg/L	Prep Date:	RunNo: 17354
Client ID: CCV	Batch ID: R17354	TestNo: NWTPH-Gx		Analysis Date: 10/17/2014	SeqNo: 227692
Analyte					
Gasoline	Result	PQL	SPK value	SPK Ref Val	%REC

Sample ID: MB-R17354	SampType: MBLK	TestCode: NWTPHGX_W	Units: µg/L	Prep Date:	RunNo: 17354
Client ID: PBW	Batch ID: R17354	TestNo: NWTPH-Gx		Analysis Date: 10/17/2014	SeqNo: 227693
Analyte					
Gasoline	Result	PQL	SPK value	SPK Ref Val	%REC

Sample ID: LCS-R17354	SampType: LCS	TestCode: NWTPHGX_W	Units: µg/L	Prep Date:	RunNo: 17354
Client ID: LCSW	Batch ID: R17354	TestNo: NWTPH-Gx		Analysis Date: 10/17/2014	SeqNo: 227694
Analyte					
Gasoline	Result	PQL	SPK value	SPK Ref Val	%REC

Sample ID: 1410125-001ADUP	SampType: DUP	TestCode: NWTPHGX_W	Units: µg/L	Prep Date:	RunNo: 17354
Client ID: ZZZZZZ	Batch ID: R17354	TestNo: NWTPH-Gx		Analysis Date: 10/17/2014	SeqNo: 227701
Analyte					
Gasoline	Result	PQL	SPK value	SPK Ref Val	%REC

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit	Page 8 of 18
	O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recover	

QC SUMMARY REPORT

WO#: 1410103
12-Nov-14

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: NWTPHGX_W

Sample ID: CCV	SampType: CCV	TestCode: NWTPHGX_W	Units: µg/L	Prep Date:	RunNo: 17354						
Client ID: CCV	Batch ID: R17354	TestNo: NWTPH-Gx		Analysis Date: 10/17/2014	SeqNo: 227702						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	2270	100	2500	0	90.8	80	120				

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recover

Page 9 of 18

QC SUMMARY REPORT

WO#: 1410103
12-Nov-14

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: PAHLL_W

Sample ID: CCV-8340	SampType: CCV	TestCode: PAHLL_W	Units: µg/L	Prep Date:				RunNo: 17306
Client ID: CCV	Batch ID: 8340	TestNo: SW8270D	SW 3510C	Analysis Date: 10/15/2014				SeqNo: 227229
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
Acenaphthene	1.98	0.0500	2.000	0	98.9	80	120	
Acenaphthylene	2.05	0.0500	2.000	0	103	80	120	
Anthracene	1.78	0.0500	2.000	0	88.9	80	120	
Benz(a)anthracene	2.00	0.0500	2.000	0	99.8	80	120	
Benzo(a)pyrene	2.12	0.0500	2.000	0	106	80	120	
Benzo(b)fluoranthene	2.24	0.0500	2.000	0	112	80	120	
Benzo(g,h,i)perylene	1.93	0.0500	2.000	0	96.5	80	120	
Benzo(k)fluoranthene	2.00	0.0500	2.000	0	100	80	120	
Chrysene	1.93	0.0500	2.000	0	96.4	80	120	
Dibenz(a,h)anthracene	2.05	0.0500	2.000	0	103	80	120	
Fluoranthene	2.03	0.0500	2.000	0	101	80	120	
Fluorene	2.07	0.0500	2.000	0	103	80	120	
Indeno(1,2,3-cd)pyrene	2.06	0.0500	2.000	0	103	80	120	
Naphthalene	1.94	0.0500	2.000	0	96.9	80	120	
Phenanthrene	2.04	0.0500	2.000	0	102	80	120	
Pyrene	2.19	0.0500	2.000	0	109	80	120	

Sample ID: LCS-8340	SampType: LCS	TestCode: PAHLL_W	Units: µg/L	Prep Date: 10/15/2014				RunNo: 17306
Client ID: LCSW	Batch ID: 8340	TestNo: SW8270D	SW 3510C	Analysis Date: 10/15/2014				SeqNo: 227230
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
Acenaphthene	4.34	0.0500	5.000	0	86.8	35.1	100	
Acenaphthylene	4.69	0.0500	5.000	0	93.7	29	89.1	SO
Anthracene	4.42	0.0500	5.000	0	88.4	42	97.4	

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recover

Page 10 of 18

QC SUMMARY REPORT

WO#: 1410103
12-Nov-14

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: PAHLL_W

Sample ID: LCS-8340	SampType: LCS	TestCode: PAHLL_W	Units: µg/L	Prep Date: 10/15/2014	RunNo: 17306			
Client ID: LCSW	Batch ID: 8340	TestNo: SW8270D	SW 3510C	Analysis Date: 10/15/2014	SeqNo: 227230			
Analyte								
Benz(a)anthracene	Result	PQL	SPK value	SPK Ref Val	%REC			
4.58	0.0500	5.000	0	91.7	34.2	95.8		
Benzo(a)pyrene		0.0500	5.000	0	96.4	23.4	103	
Benzo(b)fluoranthene		0.0500	5.000	0	98.1	36.6	99.5	
Benzo(g,h,i)perylene		0.0500	5.000	0	89.2	20.8	120	
Benzo(k)fluoranthene		0.0500	5.000	0	91.3	39.7	93.4	
Chrysene		0.0500	5.000	0	81.0	39.1	119	
Dibenz(a,h)anthracene		0.0500	5.000	0	89.9	5.05	89	SO
Fluoranthene		0.0500	5.000	0	92.1	42.4	95.9	
Fluorene		0.0500	5.000	0	91.3	37.4	88.4	SO
Indeno(1,2,3-cd)pyrene		0.0500	5.000	0	88.1	10.5	98.4	
Naphthalene		0.0500	5.000	0	77.3	25.6	106	
Phenanthrene		0.0500	5.000	0	90.7	38.1	106	
Pyrene		0.0500	5.000	0	100	41.3	118	

Sample ID: LCSD-8340	SampType: LCSD	TestCode: PAHLL_W	Units: µg/L	Prep Date: 10/15/2014	RunNo: 17306					
Client ID: LCSS02	Batch ID: 8340	TestNo: SW8270D	SW 3510C	Analysis Date: 10/15/2014	SeqNo: 227231					
Analyte										
Acenaphthene	Result	PQL	SPK value	SPK Ref Val	%REC					
4.29	0.0500	5.000	0	85.8	35.1	100	4.338	1.10	20	
Acenaphthylene		0.0500	5.000	0	92.0	29	89.1	4.686	1.90	20
Anthracene		0.0500	5.000	0	85.5	42	97.4	4.422	3.38	20
Benz(a)anthracene		0.0500	5.000	0	91.6	34.2	95.8	4.585	0.0635	20
Benzo(a)pyrene		0.0500	5.000	0	95.6	23.4	103	4.819	0.786	20
Benzo(b)fluoranthene		0.0500	5.000	0	100	36.6	99.5	4.903	2.32	20

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recover

Page 11 of 18

QC SUMMARY REPORT

WO#: 1410103
12-Nov-14

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: PAHLL_W

Sample ID: LCSD-8340	SampType: LCSD	TestCode: PAHLL_W	Units: µg/L	Prep Date: 10/15/2014	RunNo: 17306						
Client ID: LCSS02	Batch ID: 8340	TestNo: SW8270D	SW 3510C	Analysis Date: 10/15/2014	SeqNo: 227231						
<hr/>											
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(g,h,i)perylene	4.50	0.0500	5.000	0	90.0	20.8	120	4.459	0.965	20	
Benzo(k)fluoranthene	4.60	0.0500	5.000	0	91.9	39.7	93.4	4.564	0.681	20	
Chrysene	4.05	0.0500	5.000	0	81.1	39.1	119	4.048	0.138	20	
Dibenz(a,h)anthracene	4.48	0.0500	5.000	0	89.6	5.05	89	4.497	0.374	20	SO
Fluoranthene	4.61	0.0500	5.000	0	92.2	42.4	95.9	4.607	0.0940	20	
Fluorene	4.50	0.0500	5.000	0	90.0	37.4	88.4	4.566	1.51	20	SO
Indeno(1,2,3-cd)pyrene	4.41	0.0500	5.000	0	88.3	10.5	98.4	4.403	0.231	20	
Naphthalene	3.72	0.0500	5.000	0	74.5	25.6	106	3.866	3.73	20	
Phenanthrene	4.45	0.0500	5.000	0	89.0	38.1	106	4.534	1.87	20	
Pyrene	4.90	0.0500	5.000	0	98.1	41.3	118	5.000	1.94	20	

Sample ID: MB-8340	SampType: MBLK	TestCode: PAHLL_W	Units: µg/L	Prep Date: 10/15/2014	RunNo: 17306						
Client ID: PBW	Batch ID: 8340	TestNo: SW8270D	SW 3510C	Analysis Date: 10/15/2014	SeqNo: 227232						
<hr/>											
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.0500									
Acenaphthylene	ND	0.0500									
Anthracene	ND	0.0500									
Benz(a)anthracene	ND	0.0500									
Benzo(a)pyrene	ND	0.0500									
Benzo(b)fluoranthene	ND	0.0500									
Benzo(g,h,i)perylene	ND	0.0500									
Benzo(k)fluoranthene	ND	0.0500									
Chrysene	ND	0.0500									

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recover

Page 12 of 18

QC SUMMARY REPORT

WO#: 1410103
12-Nov-14

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: PAHLL_W

Sample ID: MB-8340	SampType: MBLK	TestCode: PAHLL_W	Units: µg/L	Prep Date: 10/15/2014	RunNo: 17306						
Client ID: PBW	Batch ID: 8340	TestNo: SW8270D	SW 3510C	Analysis Date: 10/15/2014	SeqNo: 227232						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibenz(a,h)anthracene	ND	0.0500									
Fluoranthene	ND	0.0500									
Fluorene	ND	0.0500									
Indeno(1,2,3-cd)pyrene	ND	0.0500									
Naphthalene	ND	0.0500									
Phenanthrene	ND	0.0500									
Pyrene	ND	0.0500									
Surrogate: 2-Fluorobiphenyl	0.0775		0.1000		77.5	18.6	106				
Surrogate: Nitrobenzene-d5	0.0856		0.1000		85.6	17	130				
Surrogate: Terphenyl-d14	0.0907		0.1000		90.7	39.6	131				

Sample ID: CCV-8340	SampType: CCV	TestCode: PAHLL_W	Units: µg/L	Prep Date:	RunNo: 17306						
Client ID: CCV	Batch ID: 8340	TestNo: SW8270D	SW 3510C	Analysis Date: 10/16/2014	SeqNo: 227233						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	2.01	0.0500	2.000	0	100	80	120				
Acenaphthylene	2.10	0.0500	2.000	0	105	80	120				
Anthracene	1.91	0.0500	2.000	0	95.3	80	120				
Benz(a)anthracene	2.02	0.0500	2.000	0	101	80	120				
Benzo(a)pyrene	2.12	0.0500	2.000	0	106	80	120				
Benzo(b)fluoranthene	1.99	0.0500	2.000	0	99.4	80	120				
Benzo(g,h,i)perylene	1.96	0.0500	2.000	0	98.1	80	120				
Benzo(k)fluoranthene	2.25	0.0500	2.000	0	113	80	120				
Chrysene	1.89	0.0500	2.000	0	94.5	80	120				

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recov

Page 13 of 18

QC SUMMARY REPORT

WO#: 1410103
12-Nov-14

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: PAHLL_W

Sample ID: CCV-8340	SampType: CCV	TestCode: PAHLL_W	Units: µg/L	Prep Date:			RunNo: 17306				
Client ID: CCV	Batch ID: 8340	TestNo: SW8270D	SW 3510C	Analysis Date: 10/16/2014			SeqNo: 227233				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibenz(a,h)anthracene	2.04	0.0500	2.000	0	102	80	120				
Fluoranthene	2.05	0.0500	2.000	0	103	80	120				
Fluorene	2.06	0.0500	2.000	0	103	80	120				
Indeno(1,2,3-cd)pyrene	2.02	0.0500	2.000	0	101	80	120				
Naphthalene	1.99	0.0500	2.000	0	99.4	80	120				
Phenanthrene	2.03	0.0500	2.000	0	101	80	120				
Pyrene	2.12	0.0500	2.000	0	106	80	120				

Sample ID: CCB-8340	SampType: CCB	TestCode: PAHLL_W	Units: µg/L	Prep Date:			RunNo: 17306				
Client ID: CCB	Batch ID: 8340	TestNo: SW8270D	SW 3510C	Analysis Date: 10/16/2014			SeqNo: 227234				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.0500									
Acenaphthylene	ND	0.0500									
Anthracene	ND	0.0500									
Benz(a)anthracene	ND	0.0500									
Benzo(a)pyrene	ND	0.0500									
Benzo(b)fluoranthene	ND	0.0500									
Benzo(g,h,i)perylene	ND	0.0500									
Benzo(k)fluoranthene	ND	0.0500									
Chrysene	ND	0.0500									
Dibenz(a,h)anthracene	ND	0.0500									
Fluoranthene	ND	0.0500									
Fluorene	ND	0.0500									

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recov

Page 14 of 18

QC SUMMARY REPORT

WO#: 1410103
12-Nov-14

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: PAHLL_W

Sample ID: CCB-8340	SampType: CCB	TestCode: PAHLL_W	Units: µg/L	Prep Date:	RunNo: 17306
Client ID: CCB	Batch ID: 8340	TestNo: SW8270D	SW 3510C	Analysis Date: 10/16/2014	SeqNo: 227234
Analyte					
Indeno(1,2,3-cd)pyrene	Result	PQL	SPK value	SPK Ref Val	%REC
ND	0.0500				
Naphthalene		ND	0.0500		
Phenanthrene		ND	0.0500		
Pyrene		ND	0.0500		
Surr: 2-Fluorobiphenyl	0.0724		0.1000	72.4	18.6
Surr: Nitrobenzene-d5	0.0869		0.1000	86.9	17
Surr: Terphenyl-d14	0.0899		0.1000	89.9	39.6
					131

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSdlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recover

Page 15 of 18

QC SUMMARY REPORT

WO#: 1410103
12-Nov-14

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: TOC_W

Sample ID:	LCS-R17371	SampType:	LCS	TestCode:	TOC_W	Units:	mg/L	Prep Date:		RunNo:	17371	
Client ID:	LCSW	Batch ID:	R17371	TestNo:	M5310 B	Analysis Date:			10/20/2014	SeqNo:	227852	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total		9.71	1.00	10.00	0	97.1	84.1	109				

Sample ID:	MB-R17371	SampType:	MBLK	TestCode:	TOC_W	Units:	mg/L	Prep Date:		RunNo:	17371	
Client ID:	PBW	Batch ID:	R17371	TestNo:	M5310 B	Analysis Date:			10/20/2014	SeqNo:	227853	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total		ND	1.00									

Sample ID:	1410086-001EMS	SampType:	MS	TestCode:	TOC_W	Units:	mg/L	Prep Date:		RunNo:	17371	
Client ID:	ZZZZZZ	Batch ID:	R17371	TestNo:	M5310 B	Analysis Date:			10/20/2014	SeqNo:	227855	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total		5.26	1.00	5.000	0.7386	90.5	74.7	121				

Sample ID:	1410086-001EMSD	SampType:	MSD	TestCode:	TOC_W	Units:	mg/L	Prep Date:		RunNo:	17371	
Client ID:	ZZZZZZ	Batch ID:	R17371	TestNo:	M5310 B	Analysis Date:			10/20/2014	SeqNo:	227856	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total		5.34	1.00	5.000	0.7386	92.0	74.7	121	5.262	1.47	20	

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSdlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recover

Page 16 of 18

QC SUMMARY REPORT

WO#: 1410103
12-Nov-14

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: TOC_W

Sample ID: R17371CCV	SampType: CCV	TestCode: TOC_W	Units: mg/L	Prep Date:	RunNo: 17371
Client ID: CCV	Batch ID: R17371	TestNo: M5310 B		Analysis Date: 10/20/2014	SeqNo: 227862
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Organic Carbon, Total	4.70	1.00	5.000	0	94.0
				90	110

Sample ID: R17371CCV	SampType: CCV	TestCode: TOC_W	Units: mg/L	Prep Date:	RunNo: 17371
Client ID: CCV	Batch ID: R17371	TestNo: M5310 B		Analysis Date: 10/20/2014	SeqNo: 227867
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Organic Carbon, Total	9.13	1.00	10.00	0	91.3
				90	110

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSdlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recover

Page 17 of 18

QC SUMMARY REPORT

WO#: 1410103
12-Nov-14

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: TSS_WW

Sample ID: MB-R17316	SampType: MBLK	TestCode: TSS_WW	Units: mg/L	Prep Date:	RunNo: 17316
Client ID: PBW	Batch ID: R17316	TestNo: M2540 D		Analysis Date: 10/16/2014	SeqNo: 227315
Analyte					
	Result	PQL	SPK value	SPK Ref Val	%REC
Total Suspended Solids	ND	5.00			

Sample ID: LCS-R17316	SampType: LCS	TestCode: TSS_WW	Units: mg/L	Prep Date:	RunNo: 17316
Client ID: LCSW	Batch ID: R17316	TestNo: M2540 D		Analysis Date: 10/16/2014	SeqNo: 227316
Analyte					
	Result	PQL	SPK value	SPK Ref Val	%REC
Total Suspended Solids	83.0	5.00	100.0	0	83.0
				80	105

Sample ID: 1410089-001BDUP	SampType: DUP	TestCode: TSS_WW	Units: mg/L	Prep Date:	RunNo: 17316
Client ID: ZZZZZZ	Batch ID: R17316	TestNo: M2540 D		Analysis Date: 10/16/2014	SeqNo: 227318
Analyte					
	Result	PQL	SPK value	SPK Ref Val	%REC
Total Suspended Solids	7.00	5.00			12.00
				52.6	20
				RF	

Sample ID: 1410103-002DDUP	SampType: DUP	TestCode: TSS_WW	Units: mg/L	Prep Date:	RunNo: 17316
Client ID: CB-52-Post	Batch ID: R17316	TestNo: M2540 D		Analysis Date: 10/16/2014	SeqNo: 227330
Analyte					
	Result	PQL	SPK value	SPK Ref Val	%REC
Total Suspended Solids	22.0	5.00			26.00
				16.7	20

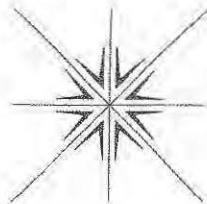
Qualifiers:	B Analyte detected in the associated Method Blank	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit	Page 18 of 18
O RSD is greater than RSDlimit	R RPD outside accepted recovery limits	S Spike Recovery outside accepted recover		

KEY TO FLAGS

Rev. May 12, 2010

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
- A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
- A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
- A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
- A4 The product appears to be aged or degraded diesel.
- B The blank exhibited a positive result greater than the reporting limit for this compound.
- CN See Case Narrative.
- D Result is based from a dilution.
- E Result exceeds the calibration range for this compound. The result should be considered as estimate.
- F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
- G Result may be biased high due to biogenic interferences. Clean up is recommended.
- H Sample was analyzed outside recommended holding time.
- HT At clients request, samples was analyzed outside of recommended holding time.
- J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
- K Diesel result is biased high due to amount of Oil contained in the sample.
- L Diesel result is biased high due to amount of Gasoline contained in the sample.
- M Oil result is biased high due to amount of Diesel contained in the sample.
- MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
- MI Result is outside control limits due to matrix interference.
- MSA Value determined by Method of Standard Addition.
- O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
- Q Detection levels elevated due to sample matrix.
- R RPD control limits were exceeded.
- RF Duplicate failed due to result being at or near the method-reporting limit.
- RP Matrix spike values exceed established QC limits; post digestion spike is in control.
- S Recovery is outside control limits.
- SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- * The result for this parameter was greater than the maximum contaminant level of the TCLP regulatory limit.

CHAIN OF CUSTODY RECORD



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Collected By: Chris Kramer
Signature: Chris Kramer
Printed: Chris Kramer

Signature _____
Printed _____

Turn Around Time
 Normal 5-7 Business Days
 Rush _____

Rush Analyses Must Be Scheduled With The Lab In Advance

Relinquished By: <u>Chris Farn</u>	Date <u>10/15/14</u>	Time <u>125</u>
Company: <u>PSLR</u>		

Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt
Samples held beyond 60 days subject to storage fee(s)

Contact Person/Project Manager Chris Kramer
Company SLR
Address _____

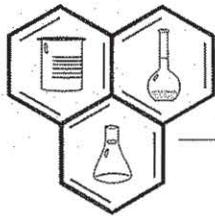
Phone 503-723-4423 Fax _____
Project No. 108.00895.00002 Project Name Lampros
Project Site Location OR X WA _____ Other _____
Invoice To SLR P.O. No. _____

No. of Containers	Analyses							For Laboratory Use	
	PCBs	PAHs	Plthalates	MnTPH-Dx	MnTPH-Gx	TAC	Metals - low level		
9	X	X	X	X	X	X	X		
9	X	X	X	X	X	X	X		
9	X	X	X	X	X	X	X		
9	X	X	X	X	X	X	X		
1							X		
1							X		
1							X		
1							X		

Relinquished By: Ali K Date 10/15/17 Time 125
Company: SLR

Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt
Samples held beyond 60 days subject to storage fee(s)

Relinquished By: Company:	Date	Time
Received For Lab By: <i>Cindie Hilliard</i>	Date 10/15/14	Time 12:00



NEILSON RESEARCH CORPORATION

Environmental Testing Laboratory

11/11/2014

Nikki Bippes
Specialty Analytical
11711 SE Capps Rd, #B
Clackamas, OR 97015

TEL: 503-607-1331

FAX: 503-607-1336

RE: SA 1410103

Dear Nikki Bippes:

Order No.: 1411167

Neilson Research Corporation received 4 sample(s) on 11/5/2014 for the analyses presented in the following report.

The results relate only to the parameters tested or to the sample as received by the laboratory. This report shall not be reproduced except in full, without the written approval of Neilson Research Corporation. If you have any questions regarding these test results, please feel free to call.

Sincerely,
Neilson Research Corporation

Alec C Smith
Project Manager

Neilson Research Corporation

245 South Grape Street, Medford, Oregon 97501 541-770-5678 Fax 541-770-2901

Analysis Report

ORELAP 100016
EPA OR00028

CLIENT: Specialty Analytical
Project: SA 1410103
Lab Order: 1411167

Date: 11-Nov-14

CASE NARRATIVE

The analyses were performed according to the guidelines in the Neilson Research Corporation Quality Assurance Program. This report contains analytical results for the sample(s) as received by the laboratory.

Neilson Research Corporation certifies that this report is in compliance with the requirements of NELAP. No unusual difficulties were experienced during analysis of this batch except as noted below or qualified with data flags on the reports.

Neilson Research Corporation

245 South Grape Street, Medford, Oregon 97501 541-770-5678 Fax 541-770-2901

Analysis Report

ORELAP 100016
EPA OR00028

Specialty Analytical

11711 SE Capps Rd, #B

Clackamas, OR 97015

Client Sample ID: SA 1410103-001

Sample Location:

Project: SA 1410103

Lab Order: 1411167

NRC Sample ID 1411167-01

Collection Date: 10/15/2014 9:50:00 AM

Received Date: 11/5/2014 3:29:00 PM

Reported Date: 11/11/2014 9:52:57 AM

Matrix: Aqueous

ANALYTICAL RESULTS

Analyses	NELAC				Dilution		
	Accredited	Result	Qual	MRL	Units	Factor	Date Analyzed
Trace Metals by EPA 200.7							
Aluminum	A	1.39		0.01	mg/L	1	11/7/2014
Antimony	A	ND		0.05	mg/L	1	11/7/2014
Arsenic	A	ND		0.05	mg/L	1	11/7/2014
Cadmium	A	ND		0.001	mg/L	1	11/7/2014
Chromium	A	0.00880		0.005	mg/L	1	11/7/2014
Copper	A	0.0197		0.01	mg/L	1	11/7/2014
Lead	A	ND		0.05	mg/L	1	11/7/2014
Manganese	A	0.180		0.02	mg/L	1	11/7/2014
Nickel	A	0.00500		0.005	mg/L	1	11/7/2014
Silver	A	ND		0.001	mg/L	1	11/7/2014
Zinc	A	0.143		0.05	mg/L	1	11/7/2014

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	MRL - Minimum Reporting Limit

Neilson Research Corporation

245 South Grape Street, Medford, Oregon 97501 541-770-5678 Fax 541-770-2901

Analysis Report

ORELAP 100016
EPA OR00028

Specialty Analytical

11711 SE Capps Rd, #B

Clackamas, OR 97015

Client Sample ID: SA 1410103-002

Sample Location:

Project: SA 1410103

Lab Order: 1411167

NRC Sample ID: 1411167-02

Collection Date: 10/15/2014 10:00:00 AM

Received Date: 11/5/2014 3:29:00 PM

Reported Date: 11/11/2014 9:52:57 AM

Matrix: Aqueous

ANALYTICAL RESULTS

Analyses	NELAC				Units	Dilution Factor	Date Analyzed
	Accredited	Result	Qual	MRL			
Trace Metals by EPA 200.7							
Aluminum	A	1.52		0.01	mg/L	1	11/7/2014
Antimony	A	ND		0.05	mg/L	1	11/7/2014
Arsenic	A	ND		0.05	mg/L	1	11/7/2014
Cadmium	A	ND		0.001	mg/L	1	11/7/2014
Chromium	A	0.0105		0.005	mg/L	1	11/7/2014
Copper	A	0.0210		0.01	mg/L	1	11/7/2014
Lead	A	ND		0.05	mg/L	1	11/7/2014
Manganese	A	0.168		0.02	mg/L	1	11/7/2014
Nickel	A	0.00640		0.005	mg/L	1	11/7/2014
Silver	A	ND		0.001	mg/L	1	11/7/2014
Zinc	A	0.171		0.05	mg/L	1	11/7/2014

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	MRL - Minimum Reporting Limit

Neilson Research Corporation

245 South Grape Street, Medford, Oregon 97501 541-770-5678 Fax 541-770-2901

Analysis Report

ORELAP 100016
EPA OR00028

Specialty Analytical

11711 SE Capps Rd, #B

Clackamas, OR 97015

Client Sample ID: SA 1410103-003

Sample Location:

Project: SA 1410103

Lab Order: 1411167

NRC Sample ID 1411167-03

Collection Date: 10/15/2014 10:15:00 AM

Received Date: 11/5/2014 3:29:00 PM

Reported Date: 11/11/2014 9:52:57 AM

Matrix: Aqueous

ANALYTICAL RESULTS

Analyses	NELAC				Units	Dilution Factor	Date Analyzed
	Accredited	Result	Qual	MRL			
Trace Metals by EPA 200.7							
Aluminum	A	6.93		0.01	mg/L	1	11/7/2014
Antimony	A	ND		0.05	mg/L	1	11/7/2014
Arsenic	A	ND		0.05	mg/L	1	11/7/2014
Cadmium	A	0.00150		0.001	mg/L	1	11/7/2014
Chromium	A	0.0164		0.005	mg/L	1	11/7/2014
Copper	A	0.0419		0.01	mg/L	1	11/7/2014
Lead	A	ND		0.05	mg/L	1	11/7/2014
Manganese	A	0.346		0.02	mg/L	1	11/7/2014
Nickel	A	0.0192		0.005	mg/L	1	11/7/2014
Silver	A	ND		0.001	mg/L	1	11/7/2014
Zinc	A	0.302		0.05	mg/L	1	11/7/2014

Analyst: BAR

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	MRL - Minimum Reporting Limit

Neilson Research Corporation

245 South Grape Street, Medford, Oregon 97501 541-770-5678 Fax 541-770-2901

Analysis Report

ORELAP 100016
EPA OR00028

Specialty Analytical

11711 SE Capps Rd, #B

Clackamas, OR 97015

Client Sample ID: SA 1410103-004

Sample Location:

Project: SA 1410103

Lab Order: 1411167

NRC Sample ID: 1411167-04

Collection Date: 10/15/2014 10:30:00 AM

Received Date: 11/5/2014 3:29:00 PM

Reported Date: 11/11/2014 9:52:57 AM

Matrix: Aqueous

ANALYTICAL RESULTS

Analyses	NELAC				Units	Dilution Factor	Date Analyzed
	Accredited	Result	Qual	MRL			
Trace Metals by EPA 200.7							
Aluminum	A	5.50		0.01	mg/L	1	11/7/2014
Antimony	A	ND		0.05	mg/L	1	11/7/2014
Arsenic	A	ND		0.05	mg/L	1	11/7/2014
Cadmium	A	0.00120		0.001	mg/L	1	11/7/2014
Chromium	A	0.0127		0.005	mg/L	1	11/7/2014
Copper	A	0.0356		0.01	mg/L	1	11/7/2014
Lead	A	ND		0.05	mg/L	1	11/7/2014
Manganese	A	0.263		0.02	mg/L	1	11/7/2014
Nickel	A	0.0165		0.005	mg/L	1	11/7/2014
Silver	A	ND		0.001	mg/L	1	11/7/2014
Zinc	A	0.257		0.05	mg/L	1	11/7/2014

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	MRL - Minimum Reporting Limit

Neilson Research Corporation

DATA FLAGS

- B Analyte detected in the associated method blank.
- BA BOD Alternative Calculation: The initial results performed by Standard Methods did not fall within parameters of the Standard Methods calculation. An alternate approved calculation was performed using the HACH method and the value reported is an estimated concentration.
- C Sample(s) does not meet NELAC/ORELAP sample acceptance criteria. See Case Narrative.
- C1 Sample(s) does not meet NELAC/ORELAP sample acceptance criteria for temperature.
- CF Results confirmed by re-analysis.
- CU Cleanup performed as specified by method.
- D1 The diesel elution pattern for the sample is not typical.
- D2 The sample appears to be a heavier hydrocarbon range than diesel.
- D3 The sample appears to be a lighter hydrocarbon range than diesel.
- D4 Detected hydrocarbons do not have pattern and range consistent with typical petroleum products and may be due to biogenic interference.
- D5 Detected hydrocarbons in the diesel range appear to be weathered diesel.
- E Estimated value.
- ER Elevated reporting limit due to matrix. Report limits (MDLs, MRLs & PQLs) are adjusted based on variations in sample preparation amounts, analytical dilutions, and percent solids, where applicable.
- FC Fecal Coliforms: Sample(s) received past 40 CFR Part 136 specified holding time. Results reported as estimated values.
- G1 The gasoline elution pattern for the sample is not typical.
- G2 The sample appears to be a heavier hydrocarbon range than gasoline.
- G3 The sample appears to be a lighter hydrocarbon range than gasoline.
- G4 Detected hydrocarbons in the gasoline range appear to be weathered gasoline.
- HP Sample re-analysis performed outside of method specified holding time.
- HR Sample received outside of method specified holding time.
- HS Sample analyzed for volatile organics contained headspace.
- HT At the client's request, the sample was analyzed outside of method specified holding time.
- H Analysis performed outside of method specified holding time.
- J Analyte detected below the Minimum Reporting Limit (MRL) and above the Method Detection Limit (MDL). The J flag result is an estimated value and the user should be aware that this data is of limited reliability.
- MI Surrogate or Matrix Spike recovery is out of control limits due to matrix interference. Sample results may be biased.
- N See Case Narrative on page 2 of report.
- Q Closing continuing calibration verification (CCV) or laboratory control sample (LCS) exceeded high recovery limits, but associated samples are non-detect and the sample results are not affected. Data meets EPA/NELAC requirements.
- R Relative percent difference (RPD) is outside of the accepted recovery limits.
- R1 Relative percent difference (RPD) is outside of the accepted recovery limits. However, analyses are not controlled on RPD values for sample concentrations that are less than the reporting limit.
- R3 The relative percent difference (RPD) and/or percent recovery for the duplicate (DUP) or matrix spike (MS)/matrix spike duplicate (MSD) cannot be accurately calculated due to the concentration of analyte already present in the sample.
- R4 Duplicate analysis failed due to result being at or near method reporting limit.
- S Surrogate and/or matrix spike recovery is outside of the accepted recovery limits. Sample results may be biased.
- S1 Surrogate or matrix spike recovery is outside of control limits due to dilution necessary for analysis.
- SC Sub-contracted to another laboratory for analysis.
- T Toxicity Characteristic Leaching Procedure – Sample submitted contained < 0.5% solids. If the waste contains <0.5% dry solids, the liquid portion of the waste, after filtration, is defined as the TCLP extract.
- # Value exceeds regulatory level for TCLP contaminant.
- X1 The motor oil elution pattern for the sample is not typical.
- X2 The sample appears to be a heavier hydrocarbon range than motor oil.
- X3 The sample appears to be a lighter hydrocarbon range than motor oil.
- * Value exceeds Maximum Contaminant Level or is outside the acceptable range.

CLIENT: Specialty Analytical
Work Order: 1411167
Project: SA 1410103

ANALYTICAL QC SUMMARY REPORT**TestCode: ICP_200.7_W**

Sample ID	MB-31261	SampType:	MBLK	TestCode:	ICP_200.7_W	Units:	mg/L	Prep Date:	11/6/2014	RunNo:	76812
Client ID:	ZZZZZ	Batch ID:	31261	TestNo:	EPA 200.7	(EPA 200.7)		Analysis Date:	11/7/2014	SeqNo:	1143039
Analyte											
Aluminum		Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Antimony			ND	0.0100							
Arsenic			ND	0.0500							
Cadmium			ND	0.00100							
Chromium			ND	0.00500							
Copper			ND	0.0100							
Lead			ND	0.0500							
Manganese			ND	0.0200							
Nickel			ND	0.00500							
Silver			ND	0.00100							
Zinc			ND	0.0500							

Sample ID	LCS-31261	SampType:	LCS	TestCode:	ICP_200.7_W	Units:	mg/L	Prep Date:	11/6/2014	RunNo:	76812
Client ID:	ZZZZZ	Batch ID:	31261	TestNo:	EPA 200.7	(EPA 200.7)		Analysis Date:	11/7/2014	SeqNo:	1143040
Analyte											
Aluminum		Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Antimony			1.025	0.0100	1	0.004	102	85	115		
Arsenic			0.9873	0.0500	1	0	98.7	85	115		
Cadmium			1.015	0.0500	1	0	102	85	115		
Chromium			1.019	0.00100	1	0	102	85	115		
Copper			1.007	0.00500	1	0.0003	101	85	115		
Lead			1.008	0.0100	1	0	101	85	115		
Manganese			1.018	0.0500	1	0	102	85	115		
Nickel			0.9932	0.0200	1	0	99.3	85	115		
Silver			1.013	0.00500	1	0.0013	101	85	115		
Zinc			0.9882	0.00100	1	0	98.8	85	115		
			1.028	0.0500	1	0.0017	103	85	115		

Qualifiers: E Value above quantitation range

H Holding times for preparation or analysis exceeded

J Analyte detected below quantitation limits

ND Not Detected at the Minimum Reporting Limit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

CLIENT: Specialty Analytical
Work Order: 1411167
Project: SA 1410103

ANALYTICAL QC SUMMARY REPORT**TestCode: ICP_200.7_W**

Sample ID	1411146-01AMS	SampType:	MS	TestCode:	ICP_200.7_W	Units:	mg/L	Prep Date:	11/6/2014	RunNo:	76812	
Client ID:	ZZZZZ	Batch ID:	31261	TestNo:	EPA 200.7	(EPA 200.7)		Analysis Date:	11/7/2014	SeqNo:	1143063	
Analyte		Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum		33.93	0.0100	21	6.428	131	70	130				MI
Antimony		1.050	0.0500	1	0.0129	104	70	130				
Arsenic		1.098	0.0500	1	0.0156	108	70	130				
Cadmium		1.025	0.00100	1	0.0008	102	70	130				
Chromium		1.027	0.00500	1	0.0134	101	70	130				
Copper		1.070	0.0100	1	0.0273	104	70	130				
Lead		1.034	0.0500	1	0.0102	102	70	130				
Manganese		1.147	0.0200	1	0.1485	99.8	70	130				
Nickel		0.9954	0.00500	1	0.0056	99.0	70	130				
Silver		1.017	0.00100	1	0	102	70	130				
Zinc		1.218	0.0500	1	0.1217	110	70	130				

Sample ID	1411146-01AMSD	SampType:	MSD	TestCode:	ICP_200.7_W	Units:	mg/L	Prep Date:	11/6/2014	RunNo:	76812	
Client ID:	ZZZZZ	Batch ID:	31261	TestNo:	EPA 200.7	(EPA 200.7)		Analysis Date:	11/7/2014	SeqNo:	1143064	
Analyte		Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum		32.44	0.0100	21	6.428	124	70	130	33.93	4.49	20	MI
Antimony		1.002	0.0500	1	0.0129	98.9	70	130	1.05	4.68	20	
Arsenic		1.050	0.0500	1	0.0156	103	70	130	1.098	4.47	20	
Cadmium		0.9811	0.00100	1	0.0008	98.0	70	130	1.025	4.38	20	
Chromium		0.9798	0.00500	1	0.0134	96.6	70	130	1.027	4.70	20	
Copper		1.017	0.0100	1	0.0273	99.0	70	130	1.07	5.08	20	
Lead		0.9835	0.0500	1	0.0102	97.3	70	130	1.034	5.01	20	
Manganese		1.097	0.0200	1	0.1485	94.8	70	130	1.147	4.46	20	
Nickel		0.9506	0.00500	1	0.0056	94.5	70	130	0.9954	4.60	20	
Silver		0.9754	0.00100	1	0	97.5	70	130	1.017	4.18	20	
Zinc		1.171	0.0500	1	0.1217	105	70	130	1.218	3.93	20	

Qualifiers: E Value above quantitation range
 ND Not Detected at the Minimum Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits



Specialty Analytical

11711 SE Capps Road, Ste B
Clackamas, Oregon 97015
TEL: 503-607-1331 FAX: 503-607-1336
Website: www.specialtyanalytical.com

February 18, 2015

Chris Kramer
SLR International Corp.
1800 Blankenship Rd.
Ste 440
West Linn, OR 97068

TEL: (503) 723-4423
FAX
RE: Lampros / 108.00895.00002

Dear Chris Kramer:

Order No.: 1502078

Specialty Analytical received 6 sample(s) on 2/6/2015 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications, except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

Marty French
Lab Director

Specialty Analytical

Date Reported: 18-Feb-15

CLIENT: SLR International Corp. **Collection Date:** 2/5/2015 1:40:00 PM**Project:** Lampros / 108.00895.00002**Lab ID:** 1502078-001**Client Sample ID:** CB-52-Pre**Matrix:** STORM WATER

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX - RBC		NWTPH-DX				Analyst: BS
Diesel	0.165	0.0800		mg/L	1	2/10/2015 5:15:42 PM
Lube Oil	ND	0.200		mg/L	1	2/10/2015 5:15:42 PM
Surr: o-Terphenyl	88.2	50-150		%REC	1	2/10/2015 5:15:42 PM
NWTPH-GX		NWTPH-GX				Analyst: BS
Gasoline	ND	100		µg/L	1	2/9/2015 10:13:33 AM
Surr: 4-Bromofluorobenzene	142	50-150		%REC	1	2/9/2015 10:13:33 AM
ICP/MS METALS- TOTAL RECOVERABLE		E200.8				Analyst: KP
Aluminum	171	10.0		µg/L	1	2/16/2015 7:35:00 PM
Antimony	ND	0.500		µg/L	1	2/16/2015 7:35:00 PM
Arsenic	0.220	0.100		µg/L	1	2/16/2015 7:35:00 PM
Cadmium	ND	0.100		µg/L	1	2/16/2015 7:35:00 PM
Chromium	1.44	0.100		µg/L	1	2/16/2015 7:35:00 PM
Copper	3.93	0.500		µg/L	1	2/16/2015 7:35:00 PM
Lead	2.94	0.100		µg/L	1	2/16/2015 7:35:00 PM
Manganese	24.1	0.500		µg/L	1	2/16/2015 7:35:00 PM
Nickel	0.513	0.500		µg/L	1	2/16/2015 7:35:00 PM
Silver	ND	0.100		µg/L	1	2/16/2015 7:35:00 PM
Zinc	30.5	2.00		µg/L	1	2/16/2015 7:35:00 PM
TOTAL MERCURY-AQUEOUS		E245.2				Analyst: BW
Mercury	ND	0.000100		mg/L	1	2/12/2015 10:26:00 AM
SEMI-VOLATILE COMPOUNDS - BASE/NEUTRAL SW8270D						Analyst: bda
Bis(2-ethylhexyl)phthalate	ND	1.01		µg/L	1	2/10/2015 3:43:00 PM
Butyl benzyl phthalate	ND	1.01		µg/L	1	2/10/2015 3:43:00 PM
Diethyl phthalate	ND	1.01		µg/L	1	2/10/2015 3:43:00 PM
Dimethyl phthalate	2.75	1.01		µg/L	1	2/10/2015 3:43:00 PM
Di-n-butyl phthalate	ND	1.01		µg/L	1	2/10/2015 3:43:00 PM
Di-n-octyl phthalate	ND	1.01		µg/L	1	2/10/2015 3:43:00 PM
Surr: 2-Fluorobiphenyl	57.3	33.1-96.2		%REC	1	2/10/2015 3:43:00 PM
Surr: 4-Terphenyl-d14	71.9	41-122		%REC	1	2/10/2015 3:43:00 PM
Surr: Nitrobenzene-d5	64.5	28.9-99.9		%REC	1	2/10/2015 3:43:00 PM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: bda
Acenaphthene	ND	0.0506		µg/L	1	2/10/2015 9:57:00 AM
Acenaphthylene	ND	0.0506		µg/L	1	2/10/2015 9:57:00 AM
Anthracene	ND	0.0506		µg/L	1	2/10/2015 9:57:00 AM
Benz(a)anthracene	ND	0.0506		µg/L	1	2/10/2015 9:57:00 AM

Specialty Analytical

Date Reported: 18-Feb-15

CLIENT: SLR International Corp. **Collection Date:** 2/5/2015 1:40:00 PM
Project: Lampros / 108.00895.00002
Lab ID: 1502078-001
Client Sample ID: CB-52-Pre **Matrix:** STORM WATER

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
PAH'S BY GC/MS - LOW LEVEL						
Benzo(a)pyrene	ND	0.0506		µg/L	1	2/10/2015 9:57:00 AM
Benzo(b)fluoranthene	0.0699	0.0506		µg/L	1	2/10/2015 9:57:00 AM
Benzo(g,h,i)perylene	0.0622	0.0506		µg/L	1	2/10/2015 9:57:00 AM
Benzo(k)fluoranthene	ND	0.0506		µg/L	1	2/10/2015 9:57:00 AM
Chrysene	ND	0.0506		µg/L	1	2/10/2015 9:57:00 AM
Dibenz(a,h)anthracene	ND	0.0506		µg/L	1	2/10/2015 9:57:00 AM
Fluoranthene	0.0668	0.0506		µg/L	1	2/10/2015 9:57:00 AM
Fluorene	ND	0.0506		µg/L	1	2/10/2015 9:57:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.0506		µg/L	1	2/10/2015 9:57:00 AM
Naphthalene	ND	0.0506		µg/L	1	2/10/2015 9:57:00 AM
Phenanthrene	0.0589	0.0506		µg/L	1	2/10/2015 9:57:00 AM
Pyrene	0.0784	0.0506		µg/L	1	2/10/2015 9:57:00 AM
Surr: 2-Fluorobiphenyl	75.6	18.6-106		%REC	1	2/10/2015 9:57:00 AM
Surr: Nitrobenzene-d5	92.3	17-130		%REC	1	2/10/2015 9:57:00 AM
Surr: Terphenyl-d14	98.2	39.6-131		%REC	1	2/10/2015 9:57:00 AM
PCB'S IN LIQUID						
Aroclor 1016	ND	0.0200		µg/L	1	2/11/2015 10:04:00 AM
Aroclor 1221	ND	0.0200		µg/L	1	2/11/2015 10:04:00 AM
Aroclor 1232	ND	0.0200		µg/L	1	2/11/2015 10:04:00 AM
Aroclor 1242	ND	0.0200		µg/L	1	2/11/2015 10:04:00 AM
Aroclor 1248	ND	0.0200		µg/L	1	2/11/2015 10:04:00 AM
Aroclor 1254	ND	0.0200		µg/L	1	2/11/2015 10:04:00 AM
Aroclor 1260	ND	0.0200		µg/L	1	2/11/2015 10:04:00 AM
Aroclor 1262	ND	0.0200		µg/L	1	2/11/2015 10:04:00 AM
Aroclor 1268	ND	0.0200		µg/L	1	2/11/2015 10:04:00 AM
Surr: Decachlorobiphenyl	106	45-107		%REC	1	2/11/2015 10:04:00 AM
ORGANIC CARBON, TOTAL						
Organic Carbon, Total	2.33	1.00		mg/L	1	2/10/2015 11:18:00 AM
TOTAL SUSPENDED SOLIDS						
Total Suspended Solids	5.00	5.00		mg/L	1	2/10/2015 9:53:29 AM

Specialty Analytical

Date Reported: 18-Feb-15

CLIENT:	SLR International Corp.	Collection Date:	2/5/2015 1:50:00 PM
Project:	Lampros / 108.00895.00002		
Lab ID:	1502078-002		
Client Sample ID:	CB-52-Post	Matrix:	STORM WATER

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX - RBC		NWTPH-DX				Analyst: BS
Diesel	0.130	0.0800		mg/L	1	2/10/2015 5:37:42 PM
Lube Oil	ND	0.200		mg/L	1	2/10/2015 5:37:42 PM
Surr: o-Terphenyl	78.0	50-150		%REC	1	2/10/2015 5:37:42 PM
NWTPH-GX		NWTPH-GX				Analyst: BS
Gasoline	ND	100		µg/L	1	2/9/2015 11:13:33 AM
Surr: 4-Bromofluorobenzene	142	50-150		%REC	1	2/9/2015 11:13:33 AM
ICP/MS METALS- TOTAL RECOVERABLE		E200.8				Analyst: KP
Aluminum	214	10.0		µg/L	1	2/16/2015 8:35:00 PM
Antimony	ND	0.500		µg/L	1	2/16/2015 8:35:00 PM
Arsenic	0.377	0.100		µg/L	1	2/16/2015 8:35:00 PM
Cadmium	ND	0.100		µg/L	1	2/16/2015 8:35:00 PM
Chromium	2.35	0.100		µg/L	1	2/16/2015 8:35:00 PM
Copper	4.94	0.500		µg/L	1	2/16/2015 8:35:00 PM
Lead	3.47	0.100		µg/L	1	2/16/2015 8:35:00 PM
Manganese	40.8	0.500		µg/L	1	2/16/2015 8:35:00 PM
Nickel	1.11	0.500		µg/L	1	2/16/2015 8:35:00 PM
Silver	ND	0.100		µg/L	1	2/16/2015 8:35:00 PM
Zinc	40.5	2.00		µg/L	1	2/16/2015 8:35:00 PM
TOTAL MERCURY-AQUEOUS		E245.2				Analyst: BW
Mercury	ND	0.000100		mg/L	1	2/12/2015 10:28:00 AM
SEMI-VOLATILE COMPOUNDS - BASE/NEUTRAL SW8270D						Analyst: bda
Bis(2-ethylhexyl)phthalate	2.35	1.11		µg/L	1	2/10/2015 4:12:00 PM
Butyl benzyl phthalate	ND	1.11		µg/L	1	2/10/2015 4:12:00 PM
Diethyl phthalate	ND	1.11		µg/L	1	2/10/2015 4:12:00 PM
Dimethyl phthalate	2.26	1.11		µg/L	1	2/10/2015 4:12:00 PM
Di-n-butyl phthalate	ND	1.11		µg/L	1	2/10/2015 4:12:00 PM
Di-n-octyl phthalate	ND	1.11		µg/L	1	2/10/2015 4:12:00 PM
Surr: 2-Fluorobiphenyl	65.0	33.1-96.2		%REC	1	2/10/2015 4:12:00 PM
Surr: 4-Terphenyl-d14	75.1	41-122		%REC	1	2/10/2015 4:12:00 PM
Surr: Nitrobenzene-d5	76.5	28.9-99.9		%REC	1	2/10/2015 4:12:00 PM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: bda
Acenaphthene	ND	0.0489		µg/L	1	2/10/2015 10:23:00 AM
Acenaphthylene	ND	0.0489		µg/L	1	2/10/2015 10:23:00 AM
Anthracene	ND	0.0489		µg/L	1	2/10/2015 10:23:00 AM
Benz(a)anthracene	0.0587	0.0489		µg/L	1	2/10/2015 10:23:00 AM

Specialty Analytical

Date Reported: 18-Feb-15

CLIENT:	SLR International Corp.	Collection Date:	2/5/2015 1:50:00 PM
Project:	Lampros / 108.00895.00002		
Lab ID:	1502078-002		
Client Sample ID:	CB-52-Post	Matrix:	STORM WATER

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
PAH'S BY GC/MS - LOW LEVEL						
Benzo(a)pyrene	0.0817	0.0489		µg/L	1	2/10/2015 10:23:00 AM
Benzo(b)fluoranthene	0.110	0.0489		µg/L	1	2/10/2015 10:23:00 AM
Benzo(g,h,i)perylene	0.0691	0.0489		µg/L	1	2/10/2015 10:23:00 AM
Benzo(k)fluoranthene	ND	0.0489		µg/L	1	2/10/2015 10:23:00 AM
Chrysene	0.0609	0.0489		µg/L	1	2/10/2015 10:23:00 AM
Dibenz(a,h)anthracene	ND	0.0489		µg/L	1	2/10/2015 10:23:00 AM
Fluoranthene	0.142	0.0489		µg/L	1	2/10/2015 10:23:00 AM
Fluorene	ND	0.0489		µg/L	1	2/10/2015 10:23:00 AM
Indeno(1,2,3-cd)pyrene	0.0543	0.0489		µg/L	1	2/10/2015 10:23:00 AM
Naphthalene	ND	0.0489		µg/L	1	2/10/2015 10:23:00 AM
Phenanthrene	0.0788	0.0489		µg/L	1	2/10/2015 10:23:00 AM
Pyrene	0.153	0.0489		µg/L	1	2/10/2015 10:23:00 AM
Surr: 2-Fluorobiphenyl	87.0	18.6-106		%REC	1	2/10/2015 10:23:00 AM
Surr: Nitrobenzene-d5	107	17-130		%REC	1	2/10/2015 10:23:00 AM
Surr: Terphenyl-d14	99.9	39.6-131		%REC	1	2/10/2015 10:23:00 AM
PCB'S IN LIQUID						
		SW 8082A				Analyst: BS
Aroclor 1016	ND	0.0200		µg/L	1	2/11/2015 10:21:00 AM
Aroclor 1221	ND	0.0200		µg/L	1	2/11/2015 10:21:00 AM
Aroclor 1232	ND	0.0200		µg/L	1	2/11/2015 10:21:00 AM
Aroclor 1242	ND	0.0200		µg/L	1	2/11/2015 10:21:00 AM
Aroclor 1248	ND	0.0200		µg/L	1	2/11/2015 10:21:00 AM
Aroclor 1254	ND	0.0200		µg/L	1	2/11/2015 10:21:00 AM
Aroclor 1260	ND	0.0200		µg/L	1	2/11/2015 10:21:00 AM
Aroclor 1262	ND	0.0200		µg/L	1	2/11/2015 10:21:00 AM
Aroclor 1268	ND	0.0200		µg/L	1	2/11/2015 10:21:00 AM
Surr: Decachlorobiphenyl	103	45-107		%REC	1	2/11/2015 10:21:00 AM
ORGANIC CARBON, TOTAL						
Organic Carbon, Total	3.11	1.00		mg/L	1	2/10/2015 11:48:00 AM
TOTAL SUSPENDED SOLIDS						
Total Suspended Solids	ND	5.00		mg/L	1	2/10/2015 9:55:29 AM

Specialty Analytical

Date Reported: 18-Feb-15

CLIENT: SLR International Corp. **Collection Date:** 2/5/2015 2:10:00 PM**Project:** Lampros / 108.00895.00002**Lab ID:** 1502078-003**Client Sample ID:** CB-11-Pre**Matrix:** STORM WATER

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX - RBC		NWTPH-DX				Analyst: BS
Diesel	0.463	0.0800	A1	mg/L	1	2/10/2015 5:59:42 PM
Lube Oil	1.26	0.200		mg/L	1	2/10/2015 5:59:42 PM
Surr: o-Terphenyl	101	50-150		%REC	1	2/10/2015 5:59:42 PM
NWTPH-GX		NWTPH-GX				Analyst: BS
Gasoline	ND	100		µg/L	1	2/9/2015 11:43:33 AM
Surr: 4-Bromofluorobenzene	141	50-150		%REC	1	2/9/2015 11:43:33 AM
ICP/MS METALS- TOTAL RECOVERABLE		E200.8				Analyst: KP
Aluminum	2950	100		µg/L	10	2/17/2015 4:06:00 PM
Antimony	ND	0.500		µg/L	1	2/16/2015 8:42:00 PM
Arsenic	0.604	0.100		µg/L	1	2/16/2015 8:42:00 PM
Cadmium	ND	0.100		µg/L	1	2/16/2015 8:42:00 PM
Chromium	4.99	0.100		µg/L	1	2/16/2015 8:42:00 PM
Copper	14.2	0.500		µg/L	1	2/16/2015 8:42:00 PM
Lead	8.52	0.100		µg/L	1	2/16/2015 8:42:00 PM
Manganese	81.8	0.500		µg/L	1	2/16/2015 8:42:00 PM
Nickel	6.12	0.500		µg/L	1	2/16/2015 8:42:00 PM
Silver	ND	0.100		µg/L	1	2/16/2015 8:42:00 PM
Zinc	128	20.0		µg/L	10	2/17/2015 4:06:00 PM
TOTAL MERCURY-AQUEOUS		E245.2				Analyst: BW
Mercury	ND	0.000100		mg/L	1	2/12/2015 10:30:00 AM
SEMI-VOLATILE COMPOUNDS - BASE/NEUTRAL SW8270D						Analyst: bda
Bis(2-ethylhexyl)phthalate	1.82	0.955		µg/L	1	2/10/2015 4:41:00 PM
Butyl benzyl phthalate	ND	0.955		µg/L	1	2/10/2015 4:41:00 PM
Diethyl phthalate	ND	0.955		µg/L	1	2/10/2015 4:41:00 PM
Dimethyl phthalate	2.50	0.955		µg/L	1	2/10/2015 4:41:00 PM
Di-n-butyl phthalate	0.974	0.955		µg/L	1	2/10/2015 4:41:00 PM
Di-n-octyl phthalate	ND	0.955		µg/L	1	2/10/2015 4:41:00 PM
Surr: 2-Fluorobiphenyl	72.3	33.1-96.2		%REC	1	2/10/2015 4:41:00 PM
Surr: 4-Terphenyl-d14	81.0	41-122		%REC	1	2/10/2015 4:41:00 PM
Surr: Nitrobenzene-d5	81.1	28.9-99.9		%REC	1	2/10/2015 4:41:00 PM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: bda
Acenaphthene	ND	0.0473		µg/L	1	2/10/2015 10:48:00 AM
Acenaphthylene	ND	0.0473		µg/L	1	2/10/2015 10:48:00 AM
Anthracene	ND	0.0473		µg/L	1	2/10/2015 10:48:00 AM
Benz(a)anthracene	0.134	0.0473		µg/L	1	2/10/2015 10:48:00 AM

Specialty Analytical

Date Reported: 18-Feb-15

CLIENT:	SLR International Corp.	Collection Date:	2/5/2015 2:10:00 PM
Project:	Lampros / 108.00895.00002		
Lab ID:	1502078-003		
Client Sample ID:	CB-11-Pre	Matrix:	STORM WATER

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
PAH'S BY GC/MS - LOW LEVEL						
Benzo(a)pyrene	0.244	0.0473		µg/L	1	2/10/2015 10:48:00 AM
Benzo(b)fluoranthene	0.333	0.0473		µg/L	1	2/10/2015 10:48:00 AM
Benzo(g,h,i)perylene	0.234	0.0473		µg/L	1	2/10/2015 10:48:00 AM
Benzo(k)fluoranthene	0.177	0.0473		µg/L	1	2/10/2015 10:48:00 AM
Chrysene	0.228	0.0473		µg/L	1	2/10/2015 10:48:00 AM
Dibenz(a,h)anthracene	0.0732	0.0473		µg/L	1	2/10/2015 10:48:00 AM
Fluoranthene	0.396	0.0473		µg/L	1	2/10/2015 10:48:00 AM
Fluorene	ND	0.0473		µg/L	1	2/10/2015 10:48:00 AM
Indeno(1,2,3-cd)pyrene	0.185	0.0473		µg/L	1	2/10/2015 10:48:00 AM
Naphthalene	ND	0.0473		µg/L	1	2/10/2015 10:48:00 AM
Phenanthrene	0.289	0.0473		µg/L	1	2/10/2015 10:48:00 AM
Pyrene	0.617	0.0473		µg/L	1	2/10/2015 10:48:00 AM
Surr: 2-Fluorobiphenyl	94.6	18.6-106		%REC	1	2/10/2015 10:48:00 AM
Surr: Nitrobenzene-d5	109	17-130		%REC	1	2/10/2015 10:48:00 AM
Surr: Terphenyl-d14	108	39.6-131		%REC	1	2/10/2015 10:48:00 AM
PCB'S IN LIQUID						
		SW 8082A				Analyst: BS
Aroclor 1016	ND	0.0200		µg/L	1	2/11/2015 10:37:00 AM
Aroclor 1221	ND	0.0200		µg/L	1	2/11/2015 10:37:00 AM
Aroclor 1232	ND	0.0200		µg/L	1	2/11/2015 10:37:00 AM
Aroclor 1242	ND	0.0200		µg/L	1	2/11/2015 10:37:00 AM
Aroclor 1248	ND	0.0200		µg/L	1	2/11/2015 10:37:00 AM
Aroclor 1254	ND	0.0200		µg/L	1	2/11/2015 10:37:00 AM
Aroclor 1260	ND	0.0200		µg/L	1	2/11/2015 10:37:00 AM
Aroclor 1262	ND	0.0200		µg/L	1	2/11/2015 10:37:00 AM
Aroclor 1268	ND	0.0200		µg/L	1	2/11/2015 10:37:00 AM
Surr: Decachlorobiphenyl	97.0	45-107		%REC	1	2/11/2015 10:37:00 AM
ORGANIC CARBON, TOTAL						
Organic Carbon, Total	2.35	1.00		mg/L	1	2/10/2015 1:18:00 PM
TOTAL SUSPENDED SOLIDS						
Total Suspended Solids	63.0	5.00		mg/L	1	2/10/2015 9:57:29 AM

Specialty Analytical

Date Reported: 18-Feb-15

CLIENT:	SLR International Corp.	Collection Date:	2/5/2015 2:20:00 PM
Project:	Lampros / 108.00895.00002		
Lab ID:	1502078-004		
Client Sample ID:	CB-11-Post	Matrix:	STORM WATER

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX - RBC		NWTPH-DX				Analyst: BS
Diesel	0.706	0.0800	A1,K	mg/L	1	2/10/2015 6:21:42 PM
Lube Oil	2.26	0.200		mg/L	1	2/10/2015 6:21:42 PM
Surr: o-Terphenyl	108	50-150		%REC	1	2/10/2015 6:21:42 PM
NWTPH-GX		NWTPH-GX				Analyst: BS
Gasoline	ND	100		µg/L	1	2/9/2015 12:13:33 PM
Surr: 4-Bromofluorobenzene	140	50-150		%REC	1	2/9/2015 12:13:33 PM
ICP/MS METALS- TOTAL RECOVERABLE		E200.8				Analyst: KP
Aluminum	3050	100		µg/L	10	2/17/2015 4:13:00 PM
Antimony	ND	0.500		µg/L	1	2/16/2015 8:50:00 PM
Arsenic	0.792	0.100		µg/L	1	2/16/2015 8:50:00 PM
Cadmium	0.117	0.100		µg/L	1	2/16/2015 8:50:00 PM
Chromium	12.1	0.100		µg/L	1	2/16/2015 8:50:00 PM
Copper	22.5	0.500		µg/L	1	2/16/2015 8:50:00 PM
Lead	10.2	0.100		µg/L	1	2/16/2015 8:50:00 PM
Manganese	209	5.00		µg/L	10	2/17/2015 4:13:00 PM
Nickel	10.3	0.500		µg/L	1	2/16/2015 8:50:00 PM
Silver	ND	0.100		µg/L	1	2/16/2015 8:50:00 PM
Zinc	156	20.0		µg/L	10	2/17/2015 4:13:00 PM
TOTAL MERCURY-AQUEOUS		E245.2				Analyst: BW
Mercury	ND	0.000100		mg/L	1	2/12/2015 10:32:00 AM
SEMI-VOLATILE COMPOUNDS - BASE/NEUTRAL SW8270D						Analyst: bda
Bis(2-ethylhexyl)phthalate	3.67	1.26		µg/L	1	2/10/2015 5:10:00 PM
Butyl benzyl phthalate	ND	1.26		µg/L	1	2/10/2015 5:10:00 PM
Diethyl phthalate	ND	1.26		µg/L	1	2/10/2015 5:10:00 PM
Dimethyl phthalate	1.59	1.26		µg/L	1	2/10/2015 5:10:00 PM
Di-n-butyl phthalate	ND	1.26		µg/L	1	2/10/2015 5:10:00 PM
Di-n-octyl phthalate	ND	1.26		µg/L	1	2/10/2015 5:10:00 PM
Surr: 2-Fluorobiphenyl	55.4	33.1-96.2		%REC	1	2/10/2015 5:10:00 PM
Surr: 4-Terphenyl-d14	63.8	41-122		%REC	1	2/10/2015 5:10:00 PM
Surr: Nitrobenzene-d5	59.8	28.9-99.9		%REC	1	2/10/2015 5:10:00 PM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: bda
Acenaphthene	4.60	0.0487		µg/L	1	2/10/2015 11:14:00 AM
Acenaphthylene	0.0727	0.0487		µg/L	1	2/10/2015 11:14:00 AM
Anthracene	3.87	0.0487		µg/L	1	2/10/2015 11:14:00 AM
Benz(a)anthracene	7.27	0.0487		µg/L	1	2/10/2015 11:14:00 AM

Specialty Analytical

Date Reported: 18-Feb-15

CLIENT: SLR International Corp. **Collection Date:** 2/5/2015 2:20:00 PM
Project: Lampros / 108.00895.00002
Lab ID: 1502078-004
Client Sample ID: CB-11-Post **Matrix:** STORM WATER

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
PAH'S BY GC/MS - LOW LEVEL						
Benzo(a)pyrene	8.76	0.0487		µg/L	1	2/10/2015 11:14:00 AM
Benzo(b)fluoranthene	10.1	0.0487		µg/L	1	2/10/2015 11:14:00 AM
Benzo(g,h,i)perylene	4.97	0.0487		µg/L	1	2/10/2015 11:14:00 AM
Benzo(k)fluoranthene	3.89	0.0487		µg/L	1	2/10/2015 11:14:00 AM
Chrysene	7.71	0.0487		µg/L	1	2/10/2015 11:14:00 AM
Dibenz(a,h)anthracene	1.62	0.0487		µg/L	1	2/10/2015 11:14:00 AM
Fluoranthene	15.6	0.0487		µg/L	1	2/10/2015 11:14:00 AM
Fluorene	2.04	0.0487		µg/L	1	2/10/2015 11:14:00 AM
Indeno(1,2,3-cd)pyrene	4.59	0.0487		µg/L	1	2/10/2015 11:14:00 AM
Naphthalene	0.269	0.0487		µg/L	1	2/10/2015 11:14:00 AM
Phenanthrene	16.0	0.0487		µg/L	1	2/10/2015 11:14:00 AM
Pyrene	18.6	0.0487		µg/L	1	2/10/2015 11:14:00 AM
Surr: 2-Fluorobiphenyl	93.3	18.6-106		%REC	1	2/10/2015 11:14:00 AM
Surr: Nitrobenzene-d5	107	17-130		%REC	1	2/10/2015 11:14:00 AM
Surr: Terphenyl-d14	103	39.6-131		%REC	1	2/10/2015 11:14:00 AM
PCB'S IN LIQUID						
Aroclor 1016	ND	0.0200		µg/L	1	2/11/2015 1:09:00 PM
Aroclor 1221	ND	0.0200		µg/L	1	2/11/2015 1:09:00 PM
Aroclor 1232	ND	0.0200		µg/L	1	2/11/2015 1:09:00 PM
Aroclor 1242	ND	0.0200		µg/L	1	2/11/2015 1:09:00 PM
Aroclor 1248	ND	0.0200		µg/L	1	2/11/2015 1:09:00 PM
Aroclor 1254	ND	0.0200		µg/L	1	2/11/2015 1:09:00 PM
Aroclor 1260	ND	0.0200		µg/L	1	2/11/2015 1:09:00 PM
Aroclor 1262	ND	0.0200		µg/L	1	2/11/2015 1:09:00 PM
Aroclor 1268	ND	0.0200		µg/L	1	2/11/2015 1:09:00 PM
Surr: Decachlorobiphenyl	104	45-107		%REC	1	2/11/2015 1:09:00 PM
ORGANIC CARBON, TOTAL						
Organic Carbon, Total	1.98	1.00		mg/L	1	2/10/2015 1:48:00 PM
TOTAL SUSPENDED SOLIDS						
Total Suspended Solids	77.0	5.00		mg/L	1	2/10/2015 9:59:29 AM

Specialty Analytical

Date Reported: 18-Feb-15

CLIENT: SLR International Corp. **Collection Date:** 2/5/2015 2:50:00 PM**Project:** Lampros / 108.00895.00002**Lab ID:** 1502078-005**Client Sample ID:** CB-3-Pre**Matrix:** STORM WATER

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX - RBC		NWTPH-DX				Analyst: BS
Diesel	0.377	0.0800	A1,K	mg/L	1	2/10/2015 6:43:42 PM
Lube Oil	1.24	0.200		mg/L	1	2/10/2015 6:43:42 PM
Surr: o-Terphenyl	99.8	50-150		%REC	1	2/10/2015 6:43:42 PM
NWTPH-GX		NWTPH-GX				Analyst: BS
Gasoline	ND	100		µg/L	1	2/9/2015 12:43:33 PM
Surr: 4-Bromofluorobenzene	141	50-150		%REC	1	2/9/2015 12:43:33 PM
ICP/MS METALS- TOTAL RECOVERABLE		E200.8				Analyst: KP
Aluminum	4440	100		µg/L	10	2/17/2015 4:21:00 PM
Antimony	ND	0.500		µg/L	1	2/16/2015 8:57:00 PM
Arsenic	0.733	0.100		µg/L	1	2/16/2015 8:57:00 PM
Cadmium	0.128	0.100		µg/L	1	2/16/2015 8:57:00 PM
Chromium	11.3	0.100		µg/L	1	2/16/2015 8:57:00 PM
Copper	22.3	0.500		µg/L	1	2/16/2015 8:57:00 PM
Lead	12.8	0.100		µg/L	1	2/16/2015 8:57:00 PM
Manganese	298	5.00		µg/L	10	2/17/2015 4:21:00 PM
Nickel	9.50	0.500		µg/L	1	2/16/2015 8:57:00 PM
Silver	ND	0.100		µg/L	1	2/16/2015 8:57:00 PM
Zinc	157	20.0		µg/L	10	2/17/2015 4:21:00 PM
TOTAL MERCURY-AQUEOUS		E245.2				Analyst: BW
Mercury	ND	0.000100		mg/L	1	2/12/2015 10:34:00 AM
SEMI-VOLATILE COMPOUNDS - BASE/NEUTRAL SW8270D						Analyst: bda
Bis(2-ethylhexyl)phthalate	1.74	0.977		µg/L	1	2/10/2015 5:38:00 PM
Butyl benzyl phthalate	ND	0.977		µg/L	1	2/10/2015 5:38:00 PM
Diethyl phthalate	ND	0.977		µg/L	1	2/10/2015 5:38:00 PM
Dimethyl phthalate	ND	0.977		µg/L	1	2/10/2015 5:38:00 PM
Di-n-butyl phthalate	ND	0.977		µg/L	1	2/10/2015 5:38:00 PM
Di-n-octyl phthalate	ND	0.977		µg/L	1	2/10/2015 5:38:00 PM
Surr: 2-Fluorobiphenyl	62.3	33.1-96.2		%REC	1	2/10/2015 5:38:00 PM
Surr: 4-Terphenyl-d14	69.4	41-122		%REC	1	2/10/2015 5:38:00 PM
Surr: Nitrobenzene-d5	75.6	28.9-99.9		%REC	1	2/10/2015 5:38:00 PM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: bda
Acenaphthene	ND	0.0472		µg/L	1	2/10/2015 11:39:00 AM
Acenaphthylene	ND	0.0472		µg/L	1	2/10/2015 11:39:00 AM
Anthracene	ND	0.0472		µg/L	1	2/10/2015 11:39:00 AM
Benz(a)anthracene	0.0819	0.0472		µg/L	1	2/10/2015 11:39:00 AM

Specialty Analytical

Date Reported: 18-Feb-15

CLIENT:	SLR International Corp.	Collection Date:	2/5/2015 2:50:00 PM
Project:	Lampros / 108.00895.00002		
Lab ID:	1502078-005		
Client Sample ID:	CB-3-Pre	Matrix:	STORM WATER

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
PAH'S BY GC/MS - LOW LEVEL						
Benzo(a)pyrene	0.138	0.0472		µg/L	1	2/10/2015 11:39:00 AM
Benzo(b)fluoranthene	0.212	0.0472		µg/L	1	2/10/2015 11:39:00 AM
Benzo(g,h,i)perylene	0.222	0.0472		µg/L	1	2/10/2015 11:39:00 AM
Benzo(k)fluoranthene	0.0671	0.0472		µg/L	1	2/10/2015 11:39:00 AM
Chrysene	0.141	0.0472		µg/L	1	2/10/2015 11:39:00 AM
Dibenz(a,h)anthracene	ND	0.0472		µg/L	1	2/10/2015 11:39:00 AM
Fluoranthene	0.229	0.0472		µg/L	1	2/10/2015 11:39:00 AM
Fluorene	ND	0.0472		µg/L	1	2/10/2015 11:39:00 AM
Indeno(1,2,3-cd)pyrene	0.0845	0.0472		µg/L	1	2/10/2015 11:39:00 AM
Naphthalene	ND	0.0472		µg/L	1	2/10/2015 11:39:00 AM
Phenanthrene	0.135	0.0472		µg/L	1	2/10/2015 11:39:00 AM
Pyrene	0.406	0.0472		µg/L	1	2/10/2015 11:39:00 AM
Surr: 2-Fluorobiphenyl	96.1	18.6-106		%REC	1	2/10/2015 11:39:00 AM
Surr: Nitrobenzene-d5	115	17-130		%REC	1	2/10/2015 11:39:00 AM
Surr: Terphenyl-d14	110	39.6-131		%REC	1	2/10/2015 11:39:00 AM
PCB'S IN LIQUID						
		SW 8082A				Analyst: BS
Aroclor 1016	ND	0.0200		µg/L	1	2/11/2015 1:25:00 PM
Aroclor 1221	ND	0.0200		µg/L	1	2/11/2015 1:25:00 PM
Aroclor 1232	ND	0.0200		µg/L	1	2/11/2015 1:25:00 PM
Aroclor 1242	ND	0.0200		µg/L	1	2/11/2015 1:25:00 PM
Aroclor 1248	ND	0.0200		µg/L	1	2/11/2015 1:25:00 PM
Aroclor 1254	ND	0.0200		µg/L	1	2/11/2015 1:25:00 PM
Aroclor 1260	ND	0.0200		µg/L	1	2/11/2015 1:25:00 PM
Aroclor 1262	ND	0.0200		µg/L	1	2/11/2015 1:25:00 PM
Aroclor 1268	ND	0.0200		µg/L	1	2/11/2015 1:25:00 PM
Surr: Decachlorobiphenyl	96.8	45-107		%REC	1	2/11/2015 1:25:00 PM
ORGANIC CARBON, TOTAL						
Organic Carbon, Total	1.57	1.00		mg/L	1	2/10/2015 2:18:00 PM
TOTAL SUSPENDED SOLIDS						
Total Suspended Solids	123	5.00		mg/L	1	2/10/2015 10:01:29 AM

Specialty Analytical

Date Reported: 18-Feb-15

CLIENT: SLR International Corp. Collection Date: 2/5/2015 3:10:00 PM

Project: Lampros / 108.00895.00002

Lab ID: 1502078-006

Client Sample ID: CB-3-Post

Matrix: STORM WATER

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX - RBC		NWTPH-DX				Analyst: BS
Diesel	0.680	0.0800	A1,K	mg/L	1	2/10/2015 7:04:42 PM
Lube Oil	2.14	0.200		mg/L	1	2/10/2015 7:04:42 PM
Surr: o-Terphenyl	94.0	50-150		%REC	1	2/10/2015 7:04:42 PM
NWTPH-GX		NWTPH-GX				Analyst: BS
Gasoline	ND	100		µg/L	1	2/9/2015 1:13:33 PM
Surr: 4-Bromofluorobenzene	142	50-150		%REC	1	2/9/2015 1:13:33 PM
ICP/MS METALS- TOTAL RECOVERABLE		E200.8				Analyst: KP
Aluminum	8260	100		µg/L	10	2/17/2015 4:58:00 PM
Antimony	ND	0.500		µg/L	1	2/16/2015 9:05:00 PM
Arsenic	1.82	0.100		µg/L	1	2/16/2015 9:05:00 PM
Cadmium	0.231	0.100		µg/L	1	2/16/2015 9:05:00 PM
Chromium	29.7	0.100		µg/L	1	2/16/2015 9:05:00 PM
Copper	54.6	0.500		µg/L	1	2/16/2015 9:05:00 PM
Lead	22.8	0.100		µg/L	1	2/16/2015 9:05:00 PM
Manganese	464	5.00		µg/L	10	2/17/2015 4:58:00 PM
Nickel	19.2	0.500		µg/L	1	2/16/2015 9:05:00 PM
Silver	ND	0.100		µg/L	1	2/16/2015 9:05:00 PM
Zinc	289	20.0		µg/L	10	2/17/2015 4:58:00 PM
TOTAL MERCURY-AQUEOUS		E245.2				Analyst: BW
Mercury	ND	0.000100		mg/L	1	2/12/2015 10:36:00 AM
SEMI-VOLATILE COMPOUNDS - BASE/NEUTRAL SW8270D						Analyst: bda
Bis(2-ethylhexyl)phthalate	1.86	0.951		µg/L	1	2/10/2015 6:07:00 PM
Butyl benzyl phthalate	ND	0.951		µg/L	1	2/10/2015 6:07:00 PM
Diethyl phthalate	ND	0.951		µg/L	1	2/10/2015 6:07:00 PM
Dimethyl phthalate	ND	0.951		µg/L	1	2/10/2015 6:07:00 PM
Di-n-butyl phthalate	ND	0.951		µg/L	1	2/10/2015 6:07:00 PM
Di-n-octyl phthalate	ND	0.951		µg/L	1	2/10/2015 6:07:00 PM
Surr: 2-Fluorobiphenyl	63.2	33.1-96.2		%REC	1	2/10/2015 6:07:00 PM
Surr: 4-Terphenyl-d14	69.3	41-122		%REC	1	2/10/2015 6:07:00 PM
Surr: Nitrobenzene-d5	73.0	28.9-99.9		%REC	1	2/10/2015 6:07:00 PM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: bda
Acenaphthene	1.43	0.0486		µg/L	1	2/10/2015 12:05:00 PM
Acenaphthylene	0.0602	0.0486		µg/L	1	2/10/2015 12:05:00 PM
Anthracene	1.55	0.0486		µg/L	1	2/10/2015 12:05:00 PM
Benz(a)anthracene	5.58	0.0486		µg/L	1	2/10/2015 12:05:00 PM

Specialty Analytical

Date Reported: 18-Feb-15

CLIENT:	SLR International Corp.	Collection Date:	2/5/2015 3:10:00 PM
Project:	Lampros / 108.00895.00002		
Lab ID:	1502078-006		
Client Sample ID:	CB-3-Post	Matrix:	STORM WATER

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
PAH'S BY GC/MS - LOW LEVEL						
Benzo(a)pyrene	6.52	0.0486		µg/L	1	2/10/2015 12:05:00 PM
Benzo(b)fluoranthene	7.34	0.0486		µg/L	1	2/10/2015 12:05:00 PM
Benzo(g,h,i)perylene	3.72	0.0486		µg/L	1	2/10/2015 12:05:00 PM
Benzo(k)fluoranthene	3.11	0.0486		µg/L	1	2/10/2015 12:05:00 PM
Chrysene	6.03	0.0486		µg/L	1	2/10/2015 12:05:00 PM
Dibenz(a,h)anthracene	1.25	0.0486		µg/L	1	2/10/2015 12:05:00 PM
Fluoranthene	9.76	0.0486		µg/L	1	2/10/2015 12:05:00 PM
Fluorene	0.648	0.0486		µg/L	1	2/10/2015 12:05:00 PM
Indeno(1,2,3-cd)pyrene	3.36	0.0486		µg/L	1	2/10/2015 12:05:00 PM
Naphthalene	0.0508	0.0486		µg/L	1	2/10/2015 12:05:00 PM
Phenanthrene	7.33	0.0486		µg/L	1	2/10/2015 12:05:00 PM
Pyrene	12.9	0.0486		µg/L	1	2/10/2015 12:05:00 PM
Surr: 2-Fluorobiphenyl	94.2	18.6-106		%REC	1	2/10/2015 12:05:00 PM
Surr: Nitrobenzene-d5	102	17-130		%REC	1	2/10/2015 12:05:00 PM
Surr: Terphenyl-d14	105	39.6-131		%REC	1	2/10/2015 12:05:00 PM
PCB'S IN LIQUID						
		SW 8082A				Analyst: BS
Aroclor 1016	ND	0.0200		µg/L	1	2/11/2015 1:42:00 PM
Aroclor 1221	ND	0.0200		µg/L	1	2/11/2015 1:42:00 PM
Aroclor 1232	ND	0.0200		µg/L	1	2/11/2015 1:42:00 PM
Aroclor 1242	ND	0.0200		µg/L	1	2/11/2015 1:42:00 PM
Aroclor 1248	ND	0.0200		µg/L	1	2/11/2015 1:42:00 PM
Aroclor 1254	ND	0.0200		µg/L	1	2/11/2015 1:42:00 PM
Aroclor 1260	ND	0.0200		µg/L	1	2/11/2015 1:42:00 PM
Aroclor 1262	ND	0.0200		µg/L	1	2/11/2015 1:42:00 PM
Aroclor 1268	ND	0.0200		µg/L	1	2/11/2015 1:42:00 PM
Surr: Decachlorobiphenyl	106	45-107		%REC	1	2/11/2015 1:42:00 PM
ORGANIC CARBON, TOTAL						
Organic Carbon, Total	1.76	1.00		mg/L	1	2/10/2015 2:48:00 PM
TOTAL SUSPENDED SOLIDS						
Total Suspended Solids	245	5.00		mg/L	1	2/10/2015 10:03:29 AM

QC SUMMARY REPORT

WO#: 1502078
18-Feb-15

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: 200.8

Sample ID: ICV	SampType: ICV	TestCode: 200.8	Units: µg/L	Prep Date:			RunNo: 18894				
Client ID: ICV	Batch ID: 8921	TestNo: E200.8	E200.8	Analysis Date: 2/16/2015			SeqNo: 250428				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	482	10.0	500.0	0	96.5	90	110				
Antimony	48.5	0.500	50.00	0	97.1	90	110				
Arsenic	48.0	0.100	50.00	0	96.0	90	110				
Cadmium	47.9	0.100	50.00	0	95.7	90	110				
Chromium	47.2	0.100	50.00	0	94.3	90	110				
Copper	47.6	0.500	50.00	0	95.1	90	110				
Lead	48.3	0.100	50.00	0	96.6	90	110				
Manganese	48.9	0.500	50.00	0	97.7	90	110				
Nickel	48.1	0.500	50.00	0	96.3	90	110				
Silver	47.2	0.100	50.00	0	94.5	90	110				
Zinc	49.0	2.00	50.00	0	98.0	90	110				

Sample ID: CCV	SampType: CCV	TestCode: 200.8	Units: µg/L	Prep Date:			RunNo: 18894				
Client ID: CCV	Batch ID: 8921	TestNo: E200.8	E200.8	Analysis Date: 2/16/2015			SeqNo: 250429				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	482	10.0	500.0	0	96.4	90	110				
Antimony	49.8	0.500	50.00	0	99.6	90	110				
Arsenic	48.1	0.100	50.00	0	96.1	90	110				
Cadmium	49.0	0.100	50.00	0	98.0	90	110				
Chromium	48.6	0.100	50.00	0	97.3	90	110				
Copper	47.9	0.500	50.00	0	95.8	90	110				
Lead	49.0	0.100	50.00	0	98.0	90	110				
Manganese	49.3	0.500	50.00	0	98.6	90	110				

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recover

Page 1 of 24

QC SUMMARY REPORT

WO#: 1502078
18-Feb-15

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.00002

TestCode: 200.8

Sample ID: CCV	SampType: CCV	TestCode: 200.8	Units: µg/L	Prep Date:				RunNo: 18894			
Client ID: CCV	Batch ID: 8921	TestNo: E200.8	E200.8	Analysis Date: 2/16/2015				SeqNo: 250429			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nickel	49.0	0.500	50.00	0	98.1	90	110				
Silver	48.3	0.100	50.00	0	96.7	90	110				
Zinc	48.6	2.00	50.00	0	97.1	90	110				

Sample ID: MB-8921	SampType: MBLK	TestCode: 200.8	Units: µg/L	Prep Date: 2/12/2015				RunNo: 18894			
Client ID: PBW	Batch ID: 8921	TestNo: E200.8	E200.8	Analysis Date: 2/16/2015				SeqNo: 250431			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	10.0									
Antimony	ND	0.500									
Arsenic	ND	0.100									
Cadmium	ND	0.100									
Chromium	ND	0.100									
Copper	ND	0.500									
Lead	ND	0.100									
Manganese	ND	0.500									
Nickel	ND	0.500									
Silver	ND	0.100									
Zinc	ND	2.00									

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSdlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recover

Page 2 of 24

QC SUMMARY REPORT

WO#: 1502078
18-Feb-15

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: 200.8

Sample ID: LCS-8921	SampType: LCS	TestCode: 200.8	Units: µg/L	Prep Date: 2/12/2015	RunNo: 18894
Client ID: LCSW	Batch ID: 8921	TestNo: E200.8	E200.8	Analysis Date: 2/16/2015	SeqNo: 250432
Analyte					
Aluminum	476	10.0	500.0	0	95.1
Antimony	50.4	0.500	50.00	0	101
Arsenic	46.6	0.100	50.00	0	93.1
Cadmium	49.7	0.100	50.00	0	99.5
Chromium	50.1	0.100	50.00	0	100
Copper	50.9	0.500	50.00	0	102
Lead	49.3	0.100	50.00	0	98.6
Manganese	50.6	0.500	50.00	0	101
Nickel	54.5	0.500	50.00	0	109
Silver	50.7	0.100	50.00	0	101
Zinc	50.8	2.00	50.00	0	102

Sample ID: 1502078-001EDUP	SampType: DUP	TestCode: 200.8	Units: µg/L	Prep Date: 2/12/2015	RunNo: 18894
Client ID: CB-52-Pre	Batch ID: 8921	TestNo: E200.8	E200.8	Analysis Date: 2/16/2015	SeqNo: 250434
Analyte					
Aluminum	182	10.0		170.7	6.63
Antimony	ND	0.500		0	0
Arsenic	0.132	0.100		0.2205	50.4
Cadmium	ND	0.100		0	0
Chromium	1.54	0.100		1.439	6.59
Copper	4.40	0.500		3.928	11.2
Lead	3.06	0.100		2.941	3.97
Manganese	25.2	0.500		24.07	4.79

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recover

Page 3 of 24

QC SUMMARY REPORT

WO#: 1502078
18-Feb-15

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.00002

TestCode: 200.8

Sample ID: 1502078-001EDUP	SampType: DUP	TestCode: 200.8	Units: µg/L	Prep Date: 2/12/2015	RunNo: 18894
Client ID: CB-52-Pre	Batch ID: 8921	TestNo: E200.8	E200.8	Analysis Date: 2/16/2015	SeqNo: 250434
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Nickel	0.677	0.500			0.5126
Silver	ND	0.100			0
Zinc	35.0	2.00			30.53

Sample ID: CCV	SampType: CCV	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 18894
Client ID: CCV	Batch ID: 8921	TestNo: E200.8	E200.8	Analysis Date: 2/16/2015	SeqNo: 250436
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Aluminum	482	10.0	500.0	0	96.5
Antimony	49.5	0.500	50.00	0	99.0
Arsenic	48.7	0.100	50.00	0	97.5
Cadmium	48.3	0.100	50.00	0	96.6
Chromium	50.7	0.100	50.00	0	101
Copper	51.4	0.500	50.00	0	103
Lead	48.6	0.100	50.00	0	97.1
Manganese	49.6	0.500	50.00	0	99.1
Nickel	52.1	0.500	50.00	0	104
Silver	47.8	0.100	50.00	0	95.5
Zinc	54.1	2.00	50.00	0	108

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recover

Page 4 of 24

QC SUMMARY REPORT

WO#: 1502078
18-Feb-15

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.00002

TestCode: 200.8

Sample ID: 1502078-001EMS	SampType: MS	TestCode: 200.8	Units: µg/L	Prep Date: 2/12/2015	RunNo: 18894
Client ID: CB-52-Pre	Batch ID: 8921	TestNo: E200.8	E200.8	Analysis Date: 2/16/2015	SeqNo: 250437
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Aluminum	628	10.0	500.0	170.7	91.4
Antimony	49.0	0.500	50.00	0.1931	97.7
Arsenic	49.4	0.100	50.00	0.2205	98.3
Cadmium	49.4	0.100	50.00	0	98.8
Chromium	52.8	0.100	50.00	1.439	103
Copper	56.0	0.500	50.00	3.928	104
Lead	52.1	0.100	50.00	2.941	98.3
Manganese	72.2	0.500	50.00	24.07	70
Nickel	54.6	0.500	50.00	0.5126	108
Silver	50.8	0.100	50.00	0	102
Zinc	80.8	2.00	50.00	30.53	101

Sample ID: 1502078-001EMSD	SampType: MSD	TestCode: 200.8	Units: µg/L	Prep Date: 2/12/2015	RunNo: 18894
Client ID: CB-52-Pre	Batch ID: 8921	TestNo: E200.8	E200.8	Analysis Date: 2/16/2015	SeqNo: 250438
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Aluminum	631	10.0	500.0	170.7	92.1
Antimony	48.0	0.500	50.00	0.1931	95.6
Arsenic	47.0	0.100	50.00	0.2205	93.6
Cadmium	48.1	0.100	50.00	0	96.3
Chromium	49.8	0.100	50.00	1.439	96.8
Copper	52.7	0.500	50.00	3.928	97.6
Lead	51.0	0.100	50.00	2.941	96.0
Manganese	70.2	0.500	50.00	24.07	92.2

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recover

Page 5 of 24

QC SUMMARY REPORT

WO#: 1502078
18-Feb-15

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: 200.8

Sample ID: 1502078-001EMSD	SampType: MSD	TestCode: 200.8	Units: µg/L	Prep Date: 2/12/2015	RunNo: 18894					
Client ID: CB-52-Pre	Batch ID: 8921	TestNo: E200.8	E200.8	Analysis Date: 2/16/2015	SeqNo: 250438					
Analyte										
Nickel	Result	PQL	SPK value	SPK Ref Val	%REC					
50.6	0.500	50.00	0.5126	100	70	130	54.63	7.58	20	
Silver	49.5	0.100	50.00	0	99.0	70	130	50.84	2.69	20
Zinc	76.2	2.00	50.00	30.53	91.4	70	130	80.81	5.86	20

Sample ID: ICV	SampType: ICV	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 18894					
Client ID: ICV	Batch ID: 8921	TestNo: E200.8	E200.8	Analysis Date: 2/17/2015	SeqNo: 250635					
Analyte										
Aluminum	Result	PQL	SPK value	SPK Ref Val	%REC					
508	10.0	500.0	0	102	90	110				
Manganese	50.7	0.500	50.00	0	101	90	110			
Zinc	50.1	2.00	50.00	0	100	90	110			

Sample ID: CCV	SampType: CCV	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 18894					
Client ID: CCV	Batch ID: 8921	TestNo: E200.8	E200.8	Analysis Date: 2/17/2015	SeqNo: 250638					
Analyte										
Aluminum	Result	PQL	SPK value	SPK Ref Val	%REC					
512	10.0	500.0	0	102	90	110				
Manganese	51.4	0.500	50.00	0	103	90	110			
Zinc	51.2	2.00	50.00	0	102	90	110			

Qualifiers:	B Analyte detected in the associated Method Blank	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	O RSD is greater than RSDlimit	R RPD outside accepted recovery limits	S Spike Recovery outside accepted recover

Page 6 of 24

QC SUMMARY REPORT

WO#: 1502078
18-Feb-15

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.00002

TestCode: 200.8

Sample ID: CCV	SampType: CCV	TestCode: 200.8	Units: µg/L	Prep Date:				RunNo: 18894
Client ID: CCV	Batch ID: 8921	TestNo: E200.8	E200.8	Analysis Date: 2/17/2015				SeqNo: 250643
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
Aluminum	493	10.0	500.0	0	98.6	90	110	
Manganese	52.7	0.500	50.00	0	105	90	110	
Zinc	51.6	2.00	50.00	0	103	90	110	

Sample ID: CCV	SampType: CCV	TestCode: 200.8	Units: µg/L	Prep Date:				RunNo: 18894
Client ID: CCV	Batch ID: 8921	TestNo: E200.8	E200.8	Analysis Date: 2/17/2015				SeqNo: 250648
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
Aluminum	496	10.0	500.0	0	99.2	90	110	
Manganese	52.2	0.500	50.00	0	104	90	110	
Zinc	51.4	2.00	50.00	0	103	90	110	

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recover

Page 7 of 24

QC SUMMARY REPORT

WO#: 1502078
18-Feb-15

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: 8082LL_W

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_W	Units: µg/L	Prep Date:			RunNo: 18846				
Client ID: CCV	Batch ID: 8915	TestNo: SW 8082A	SW3510_PCB	Analysis Date: 2/11/2015			SeqNo: 249581				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1260	1.96	0.0200	2.000	0	98.0	85	115				

Sample ID: MB-8915	SampType: MBLK	TestCode: 8082LL_W	Units: µg/L	Prep Date: 2/10/2015			RunNo: 18846				
Client ID: PBW	Batch ID: 8915	TestNo: SW 8082A	SW3510_PCB	Analysis Date: 2/11/2015			SeqNo: 249582				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.0200									
Aroclor 1221	ND	0.0200									
Aroclor 1232	ND	0.0200									
Aroclor 1242	ND	0.0200									
Aroclor 1248	ND	0.0200									
Aroclor 1254	ND	0.0200									
Aroclor 1260	ND	0.0200									
Aroclor 1262	ND	0.0200									
Aroclor 1268	ND	0.0200									
Surr: Decachlorobiphenyl	163		200.0		81.4	45	107				

Sample ID: LCS-8915	SampType: LCS	TestCode: 8082LL_W	Units: µg/L	Prep Date: 2/10/2015			RunNo: 18846				
Client ID: LCSW	Batch ID: 8915	TestNo: SW 8082A	SW3510_PCB	Analysis Date: 2/11/2015			SeqNo: 249583				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1260	1.91	0.0200	2.000	0	95.6	40.4	110				

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded			ND	Not Detected at the Reporting Limit			Page 8 of 24
	O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits			S	Spike Recovery outside accepted recover			

QC SUMMARY REPORT

WO#: 1502078
18-Feb-15

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.00002

TestCode: 8082LL_W

Sample ID: LCSD-8915	SampType: LCSD	TestCode: 8082LL_W	Units: µg/L	Prep Date: 2/10/2015	RunNo: 18846
Client ID: LCSS02	Batch ID: 8915	TestNo: SW 8082A	SW3510_PCB	Analysis Date: 2/11/2015	SeqNo: 249584
Analyte					
Aroclor 1016/1260	Result	PQL	SPK value	SPK Ref Val	%REC
	2.18	0.0200	2.000	0	109
				40.4	110
				1.913	12.8
					20

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_W	Units: µg/L	Prep Date:	RunNo: 18846
Client ID: CCV	Batch ID: 8915	TestNo: SW 8082A	SW3510_PCB	Analysis Date: 2/11/2015	SeqNo: 249597
Analyte					
Aroclor 1016/1260	Result	PQL	SPK value	SPK Ref Val	%REC
	2.06	0.0200	2.000	0	103
				85	115

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSdlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recover

Page 9 of 24

QC SUMMARY REPORT

WO#: 1502078
18-Feb-15

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.00002

TestCode: 8270BN_W

Sample ID: CCV-8897	SampType: CCV	TestCode: 8270BN_W	Units: µg/L	Prep Date:	RunNo: 18826
Client ID: CCV	Batch ID: 8897	TestNo: SW8270D	SW 3510C	Analysis Date: 2/10/2015	SeqNo: 249193
Analyte					
Di-n-octyl phthalate	Result	PQL	SPK value	SPK Ref Val	%REC
	46.3	1.00	40.00	0	116
				80	120

Sample ID: MB-8897	SampType: MBLK	TestCode: 8270BN_W	Units: µg/L	Prep Date: 2/9/2015	RunNo: 18826
Client ID: PBW	Batch ID: 8897	TestNo: SW8270D	SW 3510C	Analysis Date: 2/10/2015	SeqNo: 249196
Analyte					
Bis(2-ethylhexyl)phthalate	Result	PQL	SPK value	SPK Ref Val	%REC
Butyl benzyl phthalate	ND	1.00			
Diethyl phthalate	ND	1.00			
Dimethyl phthalate	ND	1.00			
Di-n-butyl phthalate	ND	1.00			
Di-n-octyl phthalate	ND	1.00			
Surrogate: 2-Fluorobiphenyl	45.3		100.0	45.3	33.1
Surrogate: 4-Terphenyl-d14	59.0		100.0	59.0	41
Surrogate: Nitrobenzene-d5	59.7		100.0	59.7	28.9
					99.9

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSdlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recover

Page 10 of 24

QC SUMMARY REPORT

WO#: 1502078
18-Feb-15

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: Hg_WW

Sample ID:	MB-8922	SampType:	MBLK	TestCode:	Hg_WW	Units:	mg/L	Prep Date:	2/12/2015	RunNo:	18860	
Client ID:	PBW	Batch ID:	8922	TestNo:	E245.2		E245.1	Analysis Date:	2/12/2015	SeqNo:	249698	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		ND	0.000100									

Sample ID:	LCS-8922	SampType:	LCS	TestCode:	Hg_WW	Units:	mg/L	Prep Date:	2/12/2015	RunNo:	18860	
Client ID:	LCSW	Batch ID:	8922	TestNo:	E245.2		E245.1	Analysis Date:	2/12/2015	SeqNo:	249699	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.00402	0.000100	0.004000	0	101	80	120				

Sample ID:	1502078-006EDUP	SampType:	DUP	TestCode:	Hg_WW	Units:	mg/L	Prep Date:	2/12/2015	RunNo:	18860	
Client ID:	CB-3-Post	Batch ID:	8922	TestNo:	E245.2		E245.1	Analysis Date:	2/12/2015	SeqNo:	249708	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		ND	0.000100							0	0	20

Sample ID:	1502078-006EMS	SampType:	MS	TestCode:	Hg_WW	Units:	mg/L	Prep Date:	2/12/2015	RunNo:	18860	
Client ID:	CB-3-Post	Batch ID:	8922	TestNo:	E245.2		E245.1	Analysis Date:	2/12/2015	SeqNo:	249709	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.00836	0.000200	0.008000	0.00001820	104	75	125				

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recover

Page 11 of 24

QC SUMMARY REPORT

WO#: 1502078
18-Feb-15

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: Hg_WW

Sample ID: 1502078-006EMSD	SampType: MSD	TestCode: Hg_WW	Units: mg/L	Prep Date: 2/12/2015	RunNo: 18860
Client ID: CB-3-Post	Batch ID: 8922	TestNo: E245.2	E245.1	Analysis Date: 2/12/2015	SeqNo: 249710
Analyte					
Mercury	Result	PQL	SPK value	SPK Ref Val	%REC

LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

0.00828 0.000200 0.008000 0.00001820 103 75 125 0.008358 0.986 20

Sample ID: CCV	SampType: CCV	TestCode: HG_WW	Units: mg/L	Prep Date:	RunNo: 18860
Client ID: CCV	Batch ID: 8922	TestNo: E245.2	E245.1	Analysis Date: 2/12/2015	SeqNo: 249726
Analyte					
Mercury	Result	PQL	SPK value	SPK Ref Val	%REC

LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

0.00431 0.000100 0.004000 0 108 90 110

Sample ID: CCV	SampType: CCV	TestCode: HG_WW	Units: mg/L	Prep Date:	RunNo: 18860
Client ID: CCV	Batch ID: 8922	TestNo: E245.2	E245.1	Analysis Date: 2/12/2015	SeqNo: 249727
Analyte					
Mercury	Result	PQL	SPK value	SPK Ref Val	%REC

LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

0.00406 0.000100 0.004000 0 101 90 110

Sample ID: MB-8922	SampType: MBLK	TestCode: Hg_WW	Units: mg/L	Prep Date: 2/12/2015	RunNo: 18863
Client ID: PBW	Batch ID: 8922	TestNo: E245.2	E245.1	Analysis Date: 2/12/2015	SeqNo: 249733
Analyte					
Mercury	Result	PQL	SPK value	SPK Ref Val	%REC

LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

ND 0.000100

QC SUMMARY REPORT

WO#: 1502078
18-Feb-15

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.00002

TestCode: Hg_WW

Sample ID: LCS-8922	SampType: LCS	TestCode: Hg_WW	Units: mg/L	Prep Date: 2/12/2015	RunNo: 18863
Client ID: LCSW	Batch ID: 8922	TestNo: E245.2	E245.1	Analysis Date: 2/12/2015	SeqNo: 249734
Analyte					
Mercury	Result	PQL	SPK value	SPK Ref Val	%REC

Mercury	0.00417	0.000100	0.004000	0	104	80	120	%RPD	RPDLimit	Qual
---------	---------	----------	----------	---	-----	----	-----	------	----------	------

Sample ID: 1501157-014ADUP	SampType: DUP	TestCode: Hg_WW	Units: mg/L	Prep Date: 2/12/2015	RunNo: 18863
Client ID: ZZZZZZ	Batch ID: 8922	TestNo: E245.2	E245.1	Analysis Date: 2/12/2015	SeqNo: 249736
Analyte					
Mercury	Result	PQL	SPK value	SPK Ref Val	%REC

Mercury	0.0273	0.00100			0.02571	5.85	20	%RPD	RPDLimit	Qual
---------	--------	---------	--	--	---------	------	----	------	----------	------

Sample ID: CCV	SampType: CCV	TestCode: HG_WW	Units: mg/L	Prep Date:	RunNo: 18863
Client ID: CCV	Batch ID: 8922	TestNo: E245.2	E245.1	Analysis Date: 2/12/2015	SeqNo: 249737
Analyte					
Mercury	Result	PQL	SPK value	SPK Ref Val	%REC

Mercury	0.00395	0.000100	0.004000	0	98.8	90	110	%RPD	RPDLimit	Qual
---------	---------	----------	----------	---	------	----	-----	------	----------	------

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSdlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recover

Page 13 of 24

QC SUMMARY REPORT

WO#: 1502078
18-Feb-15

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: NWTPHDXL_W

Sample ID:	CCV	SampType:	CCV	TestCode:	NWTPHDXL	Units:	mg/L	Prep Date:		RunNo:	18834	
Client ID:	CCV	Batch ID:	8907	TestNo:	NWTPH-Dx	SW3510B		Analysis Date:	2/10/2015	SeqNo:	249323	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel		6.13	0.0800	6.000	0	102	85	115				
Lube Oil		3.07	0.200	3.000	0	102	85	115				

Sample ID:	MB-8907	SampType:	MBLK	TestCode:	NWTPHDXL	Units:	mg/L	Prep Date:	2/10/2015	RunNo:	18834	
Client ID:	PBW	Batch ID:	8907	TestNo:	NWTPH-Dx	SW3510B		Analysis Date:	2/10/2015	SeqNo:	249324	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel		ND	0.0800									
Lube Oil		ND	0.200									
Surr: o-Terphenyl		0.153		0.2000		76.5	50	150				

Sample ID:	LCS-8907	SampType:	LCS	TestCode:	NWTPHDXL	Units:	mg/L	Prep Date:	2/10/2015	RunNo:	18834	
Client ID:	LCSW	Batch ID:	8907	TestNo:	NWTPH-Dx	SW3510B		Analysis Date:	2/10/2015	SeqNo:	249325	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel		0.743	0.0800	1.000	0	74.3	60.7	121				
Lube Oil		0.660	0.200	1.000	0	66.0	64	126				

Sample ID:	LCSD-8907	SampType:	LCSD	TestCode:	NWTPHDXL	Units:	mg/L	Prep Date:	2/10/2015	RunNo:	18834	
Client ID:	LCSS02	Batch ID:	8907	TestNo:	NWTPH-Dx	SW3510B		Analysis Date:	2/10/2015	SeqNo:	249326	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded									
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits									

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recover

Page 14 of 24

QC SUMMARY REPORT

WO#: 1502078
18-Feb-15

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: NWTPHDXL_W

Sample ID: LCSD-8907	SampType: LCSD	TestCode: NWTPHDXL	Units: mg/L	Prep Date: 2/10/2015	RunNo: 18834
Client ID: LCSS02	Batch ID: 8907	TestNo: NWTPH-Dx	SW3510B	Analysis Date: 2/10/2015	SeqNo: 249326
Analyte					
Diesel	Result	PQL	SPK value	SPK Ref Val	%REC
0.653	0.0800	1.000	0	65.3	60.7
Lube Oil		0.200	1.000	0	68.0
				121	0.7433
				64	126
				0.6605	0.7433
				2.85	20

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDXL	Units: mg/L	Prep Date:	RunNo: 18834
Client ID: CCV	Batch ID: 8907	TestNo: NWTPH-Dx	SW3510B	Analysis Date: 2/11/2015	SeqNo: 249504
Analyte					
Diesel	Result	PQL	SPK value	SPK Ref Val	%REC
8.21	0.0800	8.000	0	103	85
Lube Oil		0.200	4.000	0	112
				85	115

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSdlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recover

Page 15 of 24

QC SUMMARY REPORT

WO#: 1502078
18-Feb-15

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: NWTPHGX_W

Sample ID: CCV	SampType: CCV	TestCode: NWTPHGX_W	Units: µg/L	Prep Date:	RunNo: 18811
Client ID: CCV	Batch ID: R18811	TestNo: NWTPH-Gx		Analysis Date: 2/9/2015	SeqNo: 249001
Analyte					
Gasoline	Result	PQL	SPK value	SPK Ref Val	%REC

Sample ID: MB-R18811	SampType: MBLK	TestCode: NWTPHGX_W	Units: µg/L	Prep Date:	RunNo: 18811
Client ID: PBW	Batch ID: R18811	TestNo: NWTPH-Gx		Analysis Date: 2/9/2015	SeqNo: 249002
Analyte					
Gasoline	Result	PQL	SPK value	SPK Ref Val	%REC

Sample ID: LCS-R18811	SampType: LCS	TestCode: NWTPHGX_W	Units: µg/L	Prep Date:	RunNo: 18811
Client ID: LCSW	Batch ID: R18811	TestNo: NWTPH-Gx		Analysis Date: 2/9/2015	SeqNo: 249003
Analyte					
Gasoline	Result	PQL	SPK value	SPK Ref Val	%REC

Sample ID: 1502078-001FDUP	SampType: DUP	TestCode: NWTPHGX_W	Units: µg/L	Prep Date:	RunNo: 18811
Client ID: CB-52-Pre	Batch ID: R18811	TestNo: NWTPH-Gx		Analysis Date: 2/9/2015	SeqNo: 249005
Analyte					
Gasoline	Result	PQL	SPK value	SPK Ref Val	%REC

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit	Page 16 of 24
	O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recover	

QC SUMMARY REPORT

WO#: 1502078
18-Feb-15

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: NWTPHGX_W

Sample ID: CCV	SampType: CCV	TestCode: NWTPHGX_W	Units: µg/L	Prep Date:	RunNo: 18811						
Client ID: CCV	Batch ID: R18811	TestNo: NWTPH-Gx		Analysis Date: 2/9/2015	SeqNo: 249011						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	2520	100	2500	0	101	80	120				

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recover

Page 17 of 24

QC SUMMARY REPORT

WO#: 1502078
18-Feb-15

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: PAHLL_W

Sample ID: CCV-8902	SampType: CCV	TestCode: PAHLL_W	Units: µg/L	Prep Date:				RunNo: 18829
Client ID: CCV	Batch ID: 8902	TestNo: SW8270D	SW 3510C	Analysis Date: 2/10/2015				SeqNo: 249227
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
Acenaphthene	0.853	0.0500	1.000	0	85.3	80	120	
Acenaphthylene	0.847	0.0500	1.000	0	84.7	80	120	
Anthracene	0.829	0.0500	1.000	0	82.9	80	120	
Benz(a)anthracene	0.856	0.0500	1.000	0	85.6	80	120	
Benzo(a)pyrene	0.923	0.0500	1.000	0	92.3	80	120	
Benzo(b)fluoranthene	1.00	0.0500	1.000	0	100	80	120	
Benzo(g,h,i)perylene	0.885	0.0500	1.000	0	88.5	80	120	
Benzo(k)fluoranthene	0.980	0.0500	1.000	0	98.0	80	120	
Chrysene	0.839	0.0500	1.000	0	83.9	80	120	
Dibenz(a,h)anthracene	0.904	0.0500	1.000	0	90.4	80	120	
Fluoranthene	0.848	0.0500	1.000	0	84.8	80	120	
Fluorene	0.853	0.0500	1.000	0	85.3	80	120	
Indeno(1,2,3-cd)pyrene	0.947	0.0500	1.000	0	94.7	80	120	
Naphthalene	0.891	0.0500	1.000	0	89.1	80	120	
Phenanthrene	0.825	0.0500	1.000	0	82.5	80	120	
Pyrene	1.01	0.0500	1.000	0	101	80	120	

Sample ID: LCS-8902	SampType: LCS	TestCode: PAHLL_W	Units: µg/L	Prep Date: 2/9/2015				RunNo: 18829
Client ID: LCSW	Batch ID: 8902	TestNo: SW8270D	SW 3510C	Analysis Date: 2/10/2015				SeqNo: 249228
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
Acenaphthene	3.72	0.0500	5.000	0	74.4	35.1	100	
Acenaphthylene	3.92	0.0500	5.000	0	78.4	29	89.1	
Anthracene	3.92	0.0500	5.000	0	78.5	42	97.4	

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recover

Page 18 of 24

QC SUMMARY REPORT

WO#: 1502078
18-Feb-15

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: PAHLL_W

Sample ID: LCS-8902	SampType: LCS	TestCode: PAHLL_W	Units: µg/L	Prep Date: 2/9/2015	RunNo: 18829
Client ID: LCSW	Batch ID: 8902	TestNo: SW8270D	SW 3510C	Analysis Date: 2/10/2015	SeqNo: 249228
Analyte					
Benz(a)anthracene	4.49	0.0500	5.000	0	89.7
Benzo(a)pyrene	4.97	0.0500	5.000	0	99.4
Benzo(b)fluoranthene	5.41	0.0500	5.000	0	108
Benzo(g,h,i)perylene	4.29	0.0500	5.000	0	85.9
Benzo(k)fluoranthene	4.64	0.0500	5.000	0	92.7
Chrysene	4.15	0.0500	5.000	0	83.0
Dibenz(a,h)anthracene	4.38	0.0500	5.000	0	87.7
Fluoranthene	4.15	0.0500	5.000	0	83.1
Fluorene	3.88	0.0500	5.000	0	77.7
Indeno(1,2,3-cd)pyrene	4.44	0.0500	5.000	0	88.9
Naphthalene	3.10	0.0500	5.000	0	61.9
Phenanthrene	3.90	0.0500	5.000	0	78.0
Pyrene	4.62	0.0500	5.000	0	92.3

Sample ID: LCSD-8902	SampType: LCSD	TestCode: PAHLL_W	Units: µg/L	Prep Date: 2/9/2015	RunNo: 18829
Client ID: LCSS02	Batch ID: 8902	TestNo: SW8270D	SW 3510C	Analysis Date: 2/10/2015	SeqNo: 249229
Analyte					
Acenaphthene	2.41	0.0500	5.000	0	48.2
Acenaphthylene	2.52	0.0500	5.000	0	50.3
Anthracene	3.28	0.0500	5.000	0	65.7
Benz(a)anthracene	3.98	0.0500	5.000	0	79.6
Benzo(a)pyrene	4.41	0.0500	5.000	0	88.1
Benzo(b)fluoranthene	4.48	0.0500	5.000	0	89.6

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recover

Page 19 of 24

QC SUMMARY REPORT

WO#: 1502078
18-Feb-15

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: PAHLL_W

Sample ID: LCSD-8902	SampType: LCSD	TestCode: PAHLL_W	Units: µg/L	Prep Date: 2/9/2015	RunNo: 18829						
Client ID: LCSS02	Batch ID: 8902	TestNo: SW8270D	SW 3510C	Analysis Date: 2/10/2015	SeqNo: 249229						
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual											
Benzo(g,h,i)perylene	3.82	0.0500	5.000	0	76.5	20.8	120	4.295	11.6	20	
Benzo(k)fluoranthene	4.09	0.0500	5.000	0	81.7	39.7	93.4	4.636	12.6	20	
Chrysene	3.73	0.0500	5.000	0	74.6	39.1	119	4.148	10.5	20	
Dibenz(a,h)anthracene	3.94	0.0500	5.000	0	78.8	5.05	89	4.384	10.7	20	
Fluoranthene	3.64	0.0500	5.000	0	72.8	42.4	95.9	4.154	13.2	20	
Fluorene	2.74	0.0500	5.000	0	54.8	37.4	88.4	3.884	34.5	20	R
Indeno(1,2,3-cd)pyrene	4.00	0.0500	5.000	0	80.1	10.5	98.4	4.443	10.4	20	
Naphthalene	1.89	0.0500	5.000	0	37.9	25.6	106	3.097	48.3	20	R
Phenanthrene	3.28	0.0500	5.000	0	65.7	38.1	106	3.902	17.2	20	
Pyrene	4.15	0.0500	5.000	0	83.0	41.3	118	4.616	10.6	20	

Sample ID: MB-8902	SampType: MBLK	TestCode: PAHLL_W	Units: µg/L	Prep Date: 2/9/2015	RunNo: 18829						
Client ID: PBW	Batch ID: 8902	TestNo: SW8270D	SW 3510C	Analysis Date: 2/10/2015	SeqNo: 249230						
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual											
Acenaphthene	ND	0.0500									
Acenaphthylene	ND	0.0500									
Anthracene	ND	0.0500									
Benz(a)anthracene	ND	0.0500									
Benzo(a)pyrene	ND	0.0500									
Benzo(b)fluoranthene	ND	0.0500									
Benzo(g,h,i)perylene	ND	0.0500									
Benzo(k)fluoranthene	ND	0.0500									
Chrysene	ND	0.0500									

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recover

Page 20 of 24

QC SUMMARY REPORT

WO#: 1502078
18-Feb-15

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: PAHLL_W

Sample ID: MB-8902	SampType: MBLK	TestCode: PAHLL_W	Units: µg/L	Prep Date: 2/9/2015	RunNo: 18829						
Client ID: PBW	Batch ID: 8902	TestNo: SW8270D	SW 3510C	Analysis Date: 2/10/2015	SeqNo: 249230						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibenz(a,h)anthracene	ND	0.0500									
Fluoranthene	ND	0.0500									
Fluorene	ND	0.0500									
Indeno(1,2,3-cd)pyrene	ND	0.0500									
Naphthalene	ND	0.0500									
Phenanthrene	ND	0.0500									
Pyrene	ND	0.0500									
Surrogate: 2-Fluorobiphenyl	0.0598		0.1000		59.8	18.6	106				
Surrogate: Nitrobenzene-d5	0.0724		0.1000		72.5	17	130				
Surrogate: Terphenyl-d14	0.0757		0.1000		75.7	39.6	131				

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recover

Page 21 of 24

QC SUMMARY REPORT

WO#: 1502078
18-Feb-15

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: TOC_W

Sample ID:	LCS-R18837	SampType:	LCS	TestCode:	TOC_W	Units:	mg/L	Prep Date:		RunNo:	18837	
Client ID:	LCSW	Batch ID:	R18837	TestNo:	M5310 B	Analysis Date:			2/10/2015	SeqNo:	249467	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total		10.3	1.00	10.00	0	103	84.1	109				

Sample ID:	MB-R18837	SampType:	MBLK	TestCode:	TOC_W	Units:	mg/L	Prep Date:		RunNo:	18837	
Client ID:	PBW	Batch ID:	R18837	TestNo:	M5310 B	Analysis Date:			2/10/2015	SeqNo:	249468	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total		ND	1.00									

Sample ID:	1502078-002CMS	SampType:	MS	TestCode:	TOC_W	Units:	mg/L	Prep Date:		RunNo:	18837	
Client ID:	CB-52-Post	Batch ID:	R18837	TestNo:	M5310 B	Analysis Date:			2/10/2015	SeqNo:	249471	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total		8.39	1.00	5.000	3.108	106	74.7	121				

Sample ID:	1502078-002CMSD	SampType:	MSD	TestCode:	TOC_W	Units:	mg/L	Prep Date:		RunNo:	18837	
Client ID:	CB-52-Post	Batch ID:	R18837	TestNo:	M5310 B	Analysis Date:			2/10/2015	SeqNo:	249472	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total		8.26	1.00	5.000	3.108	103	74.7	121	8.386	1.53	20	

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSdlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recov

Page 22 of 24

QC SUMMARY REPORT

WO#: 1502078
18-Feb-15

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: TOC_W

Sample ID: R18837CCV	SampType: CCV	TestCode: TOC_W	Units: mg/L	Prep Date:	RunNo: 18837						
Client ID: CCV	Batch ID: R18837	TestNo: M5310 B		Analysis Date: 2/10/2015	SeqNo: 249477						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	10.4	1.00	10.00	0	104	90	110				
Sample ID: R18837CCV	SampType: CCV	TestCode: TOC_W	Units: mg/L	Prep Date:	RunNo: 18837						
Client ID: CCV	Batch ID: R18837	TestNo: M5310 B		Analysis Date: 2/10/2015	SeqNo: 249481						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	5.08	1.00	5.000	0	102	90	110				

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recover

Page 23 of 24

QC SUMMARY REPORT

WO#: 1502078
18-Feb-15

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00002

TestCode: TSS_WW

Sample ID: MB-R18835	SampType: MBLK	TestCode: TSS_WW	Units: mg/L	Prep Date:	RunNo: 18835
Client ID: PBW	Batch ID: R18835	TestNo: M2540 D		Analysis Date: 2/10/2015	SeqNo: 249350
Analyte					
	Result	PQL	SPK value	SPK Ref Val	%REC
Total Suspended Solids	ND	5.00			

Sample ID: LCS-R18835	SampType: LCS	TestCode: TSS_WW	Units: mg/L	Prep Date:	RunNo: 18835
Client ID: LCSW	Batch ID: R18835	TestNo: M2540 D		Analysis Date: 2/10/2015	SeqNo: 249351
Analyte					
	Result	PQL	SPK value	SPK Ref Val	%REC
Total Suspended Solids	82.0	5.00	100.0	0	82.0
				80	105

Sample ID: 1502060-003CDUP	SampType: DUP	TestCode: TSS_WW	Units: mg/L	Prep Date:	RunNo: 18835
Client ID: ZZZZZZ	Batch ID: R18835	TestNo: M2540 D		Analysis Date: 2/10/2015	SeqNo: 249353
Analyte					
	Result	PQL	SPK value	SPK Ref Val	%REC
Total Suspended Solids	21.0	5.00			
				19.00	10.0
					20

Sample ID: 1502076-001BDUP	SampType: DUP	TestCode: TSS_WW	Units: mg/L	Prep Date:	RunNo: 18835
Client ID: ZZZZZZ	Batch ID: R18835	TestNo: M2540 D		Analysis Date: 2/10/2015	SeqNo: 249365
Analyte					
	Result	PQL	SPK value	SPK Ref Val	%REC
Total Suspended Solids	9.00	5.00			
				16.00	56.0
					20 RF

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recover

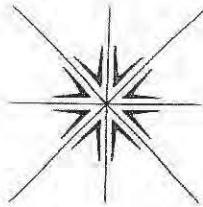
Page 24 of 24

KEY TO FLAGS

Rev. May 12, 2010

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
 - A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
 - A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
 - A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
 - A4 The product appears to be aged or degraded diesel.
 - B The blank exhibited a positive result greater than the reporting limit for this compound.
 - CN See Case Narrative.
 - D Result is based from a dilution.
 - E Result exceeds the calibration range for this compound. The result should be considered as estimate.
 - F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
 - G Result may be biased high due to biogenic interferences. Clean up is recommended.
 - H Sample was analyzed outside recommended holding time.
 - HT At clients request, samples was analyzed outside of recommended holding time.
 - J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
 - K Diesel result is biased high due to amount of Oil contained in the sample.
 - L Diesel result is biased high due to amount of Gasoline contained in the sample.
 - M Oil result is biased high due to amount of Diesel contained in the sample.
 - MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
 - MI Result is outside control limits due to matrix interference.
 - MSA Value determined by Method of Standard Addition.
 - O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
 - Q Detection levels elevated due to sample matrix.
 - R RPD control limits were exceeded.
 - RF Duplicate failed due to result being at or near the method-reporting limit.
 - RP Matrix spike values exceed established QC limits; post digestion spike is in control.
 - S Recovery is outside control limits.
 - SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- * The result for this parameter was greater than the maximum contaminant level of the TCLP regulatory limit.

CHAIN OF CUSTODY RECORD



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Collected By: Chris Kramer
Signature _____
Printed Chris Kramer

Signature _____
Printed _____

Turn Around Time

Normal 5-7 Business Days

Rush _____

Specify

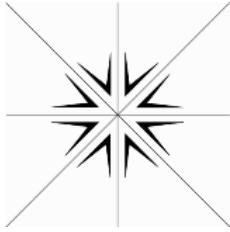
Rush Analyses Must Be Scheduled With The Lab In Advance

Contact Person/Project Manager Chris Kramer
Company SLR
Address Ckramer@SLRconsulting.com
Phone 503-723-4423 Fax
Project No. 108,00895,00002 Project Name Lampres
Project Site Location OR WA Other
Invoice To SLR P.O. No.

Relinquished By: John E. Clark
Company: S.C.R.

Unless Reclaimed, Samples Will Be Disposed of 60 Days
Samples held beyond 60 days subject to storage fee(s).

Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt. H = Hold, will call/email
Samples held beyond 60 days subject to storage fee(s) Received For Lab By: Cindy Hollingshead Date: 2/6/15 Time: 13:30
H = Hold, will call/email
w/ instructions



Specialty Analytical

11711 SE Capps Road, Ste B
Clackamas, Oregon 97015
TEL: 503-607-1331 FAX: 503-607-1336
Website: www.specialtyanalytical.com

May 13, 2015

Chris Kramer
SLR International Corp.
1800 Blankenship Rd.
Ste 440
West Linn, OR 97068

TEL: (503) 723-4423
FAX:
RE: Lampros / 108.00895.00002

Dear Chris Kramer:

Order No.: 1505072

Specialty Analytical received 12 sample(s) on 5/12/2015 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications, except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

Marty French
Lab Director

Specialty Analytical

Date Reported: 13-May-15

CLIENT: SLR International Corp. **Lab Order:** 1505072
Project: Lampros / 108.00895.00002

Lab ID: 1505072-001 **Collection Date:** 5/12/2015 10:55:00 AM

Client Sample ID: CB-13 **Matrix:** STORM WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
-----------------	---------------	-----------	-------------	--------------	-----------	----------------------

TOTAL SUSPENDED SOLIDS	M2540 D					Analyst: BW
Total Suspended Solids	33.0	5.00		mg/L	1	5/12/2015 1:54:06 PM

Lab ID: 1505072-002 **Collection Date:** 5/12/2015 11:00:00 AM

Client Sample ID: CB-Z-Pre **Matrix:** STORM WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
-----------------	---------------	-----------	-------------	--------------	-----------	----------------------

TOTAL SUSPENDED SOLIDS	M2540 D					Analyst: BW
Total Suspended Solids	20.0	5.00		mg/L	1	5/12/2015 1:57:06 PM

Lab ID: 1505072-003 **Collection Date:** 5/12/2015 11:03:00 AM

Client Sample ID: CB-Z-Post **Matrix:** STORM WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
-----------------	---------------	-----------	-------------	--------------	-----------	----------------------

TOTAL SUSPENDED SOLIDS	M2540 D					Analyst: BW
Total Suspended Solids	109	5.00		mg/L	1	5/12/2015 2:00:06 PM

Lab ID: 1505072-004 **Collection Date:** 5/12/2015 11:05:00 AM

Client Sample ID: CB-3-Pre **Matrix:** STORM WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
-----------------	---------------	-----------	-------------	--------------	-----------	----------------------

TOTAL SUSPENDED SOLIDS	M2540 D					Analyst: BW
Total Suspended Solids	53.0	5.00		mg/L	1	5/12/2015 2:03:06 PM

Lab ID: 1505072-005 **Collection Date:** 5/12/2015 11:07:00 AM

Client Sample ID: CB-3-Post **Matrix:** STORM WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
-----------------	---------------	-----------	-------------	--------------	-----------	----------------------

TOTAL SUSPENDED SOLIDS	M2540 D					Analyst: BW
Total Suspended Solids	25.0	5.00		mg/L	1	5/12/2015 2:06:06 PM

Specialty Analytical

Date Reported: 13-May-15

CLIENT: SLR International Corp. **Lab Order:** 1505072
Project: Lampros / 108.00895.00002

Lab ID: 1505072-006 **Collection Date:** 5/12/2015 11:15:00 AM
Client Sample ID: CB-9-Pre **Matrix:** STORM WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TOTAL SUSPENDED SOLIDS		M2540 D				
Total Suspended Solids	521	5.00		mg/L	1	5/12/2015 2:09:06 PM

Lab ID: 1505072-007 **Collection Date:** 5/12/2015 11:17:00 AM
Client Sample ID: CB-9-Post **Matrix:** STORM WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TOTAL SUSPENDED SOLIDS		M2540 D				
Total Suspended Solids	40.0	5.00		mg/L	1	5/12/2015 2:12:06 PM

Lab ID: 1505072-008 **Collection Date:** 5/12/2015 11:21:00 AM
Client Sample ID: CB-11-Pre **Matrix:** STORM WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TOTAL SUSPENDED SOLIDS		M2540 D				
Total Suspended Solids	134	5.00		mg/L	1	5/12/2015 2:15:06 PM

Lab ID: 1505072-009 **Collection Date:** 5/12/2015 11:24:00 AM
Client Sample ID: CB-11-Post **Matrix:** STORM WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TOTAL SUSPENDED SOLIDS		M2540 D				
Total Suspended Solids	12.0	5.00		mg/L	1	5/12/2015 2:18:06 PM

Lab ID: 1505072-010 **Collection Date:** 5/12/2015 11:31:00 AM
Client Sample ID: CB-5-2 **Matrix:** STORM WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TOTAL SUSPENDED SOLIDS		M2540 D				
Total Suspended Solids	6.00	5.00		mg/L	1	5/12/2015 2:21:06 PM

Specialty Analytical

Date Reported: 13-May-15

CLIENT: SLR International Corp. **Lab Order:** 1505072
Project: Lampros / 108.00895.00002

Lab ID: 1505072-011 **Collection Date:** 5/12/2015 11:38:00 AM

Client Sample ID: Burgard-1 **Matrix:** STORM WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TOTAL SUSPENDED SOLIDS		M2540 D				Analyst: BW
Total Suspended Solids	41.0	5.00		mg/L	1	5/12/2015 2:24:06 PM

Lab ID: 1505072-012 **Collection Date:** 5/12/2015 11:43:00 AM

Client Sample ID: Burgard-2 **Matrix:** STORM WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TOTAL SUSPENDED SOLIDS		M2540 D				Analyst: BW
Total Suspended Solids	473	5.00		mg/L	1	5/12/2015 2:27:06 PM

QC SUMMARY REPORT

WO#: 1505072
13-May-15

Specialty Analytical

Client:	SLR International Corp.										
Project:	Lampros / 108.00895.00002										
	TestCode: TSS_WW										
Sample ID: MB-R20206	SampType: MBLK	TestCode: TSS_WW	Units: mg/L	Prep Date:					RunNo: 20206		
Client ID: PBW	Batch ID: R20206	TestNo: M2540 D		Analysis Date: 5/12/2015					SeqNo: 268661		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids	ND	5.00									
Sample ID: LCS-R20206	SampType: LCS	TestCode: TSS_WW	Units: mg/L	Prep Date:					RunNo: 20206		
Client ID: LCSW	Batch ID: R20206	TestNo: M2540 D		Analysis Date: 5/12/2015					SeqNo: 268662		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids	93.0	5.00	100.0	0	93.0	80	105				
Sample ID: 1505067-001BDUP	SampType: DUP	TestCode: TSS_WW	Units: mg/L	Prep Date:					RunNo: 20206		
Client ID: ZZZZZZ	Batch ID: R20206	TestNo: M2540 D		Analysis Date: 5/12/2015					SeqNo: 268667		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids	16.0	5.00							11.00	37.0	20 RF
Sample ID: 1505072-012ADUP	SampType: DUP	TestCode: TSS_WW	Units: mg/L	Prep Date:					RunNo: 20206		
Client ID: Burgard-2	Batch ID: R20206	TestNo: M2540 D		Analysis Date: 5/12/2015					SeqNo: 268681		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids	569	5.00							473.0	18.4	20

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit	Page 1 of 1
	O	RSD is greater than RSDLimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco'	

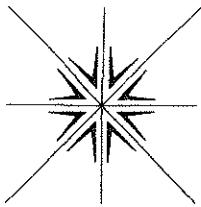
KEY TO FLAGS

Rev. May 12, 2010

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
- A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
- A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
- A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
- A4 The product appears to be aged or degraded diesel.
- B The blank exhibited a positive result greater than the reporting limit for this compound.
- CN See Case Narrative.
- D Result is based from a dilution.
- E Result exceeds the calibration range for this compound. The result should be considered as estimate.
- F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
- G Result may be biased high due to biogenic interferences. Clean up is recommended.
- H Sample was analyzed outside recommended holding time.
- HT At clients request, samples was analyzed outside of recommended holding time.
- J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
- K Diesel result is biased high due to amount of Oil contained in the sample.
- L Diesel result is biased high due to amount of Gasoline contained in the sample.
- M Oil result is biased high due to amount of Diesel contained in the sample.
- MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
- MI Result is outside control limits due to matrix interference.
- MSA Value determined by Method of Standard Addition.
- O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
- Q Detection levels elevated due to sample matrix.
- R RPD control limits were exceeded.
- RF Duplicate failed due to result being at or near the method-reporting limit.
- RP Matrix spike values exceed established QC limits; post digestion spike is in control.
- S Recovery is outside control limits.
- SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- * The result for this parameter was greater than the maximum contaminant level of the TCLP regulatory limit.

CHAIN OF CUSTODY RECORD

Page 1 of 1



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Collected By:

Signature Chris Kramer

Printed Chris Kramer

Signature _____

Printed _____

Turn Around Time

Normal 5-7 Business Days

Rush _____

Specify _____

Rush Analyses Must Be Scheduled With The Lab In Advance

Date	Time	Sample I.D.	Matrix	No. of Containers	Analyses												For Laboratory Use			
																	Comments		Lab I.D.	
5/12/15	1055	CB-13	W	1	X											Lab Job No. <u>1505072</u>				
	1100	CB-2 - Pre		1	X											Shipped Via <u>client</u>				
	1103	CB-2 - Post		1	X											Air Bill No. _____				
	1105	CB-3 - Pre		1	X											Temperature On Receipt _____ °C				
	1107	CB-3 - Post		1	X											Specialty Analytical Containers? Y / N				
	1115	CB-9 - Pre		1	X											Specialty Analytical Trip Blanks? Y / N				
	1117	CB-9 - Post		1	X															
	1121	CB-11 - Pre		1	X															
	1124	CB-11 - Post		1	X															
	1131	CR-5-2		1	X															
	1138	Burgard - 1		1	X															
✓	1143	Burgard - 2		1	X															
Relinquished By: <u>Chris Kramer</u> Company: <u>SLR</u>				Date <u>5/12/15</u>	Time <u>1232</u>	Received By: Company:	Relinquished By: Company:												Date	Time
Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt. Samples held beyond 60 days subject to storage fee(s)												Received For Lab By: <u>Nikki Buppel</u>				Date <u>5/12/15</u>	Time <u>1232</u>			

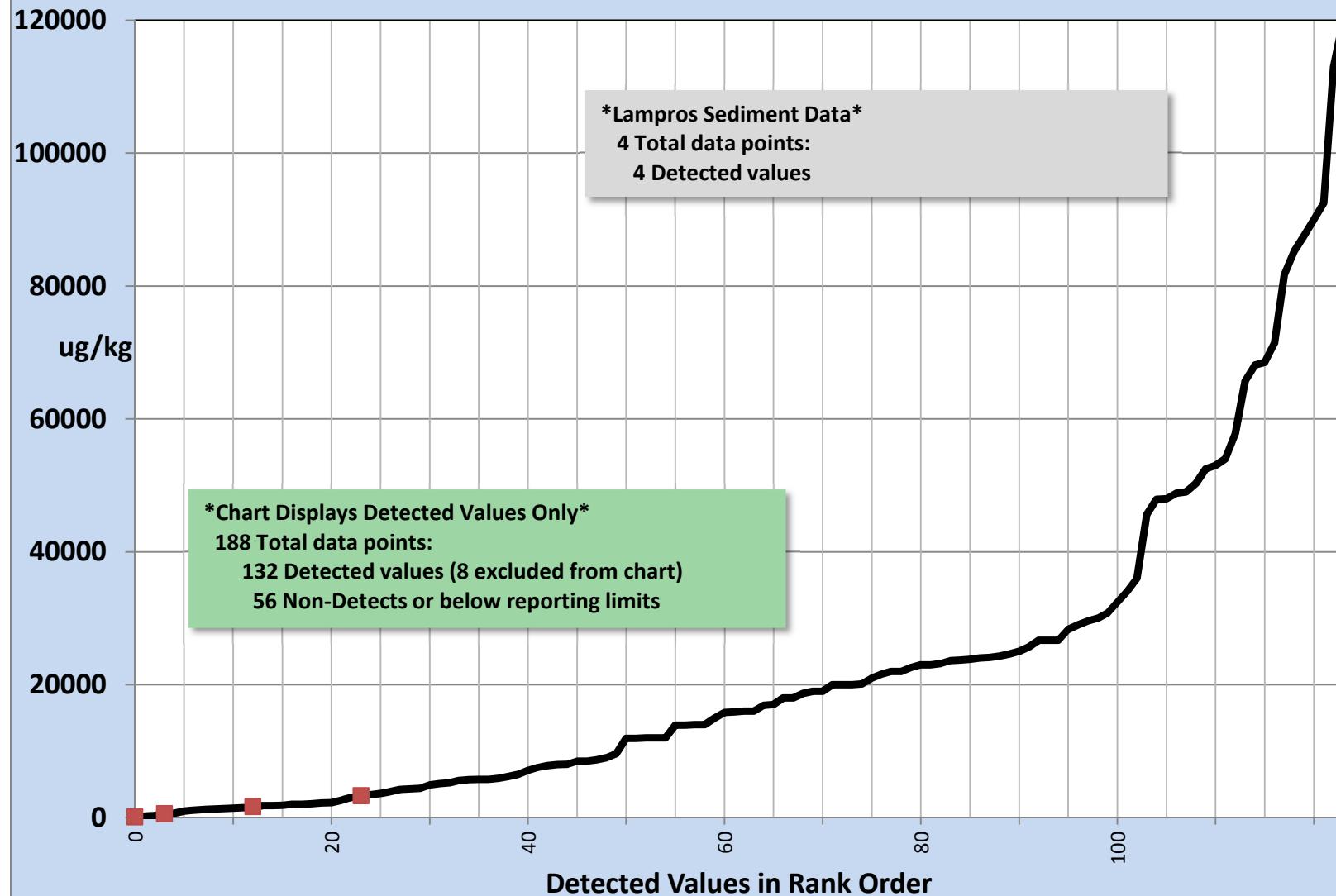
APPENDIX E

RANK-ORDER CURVES

SEDIMENT

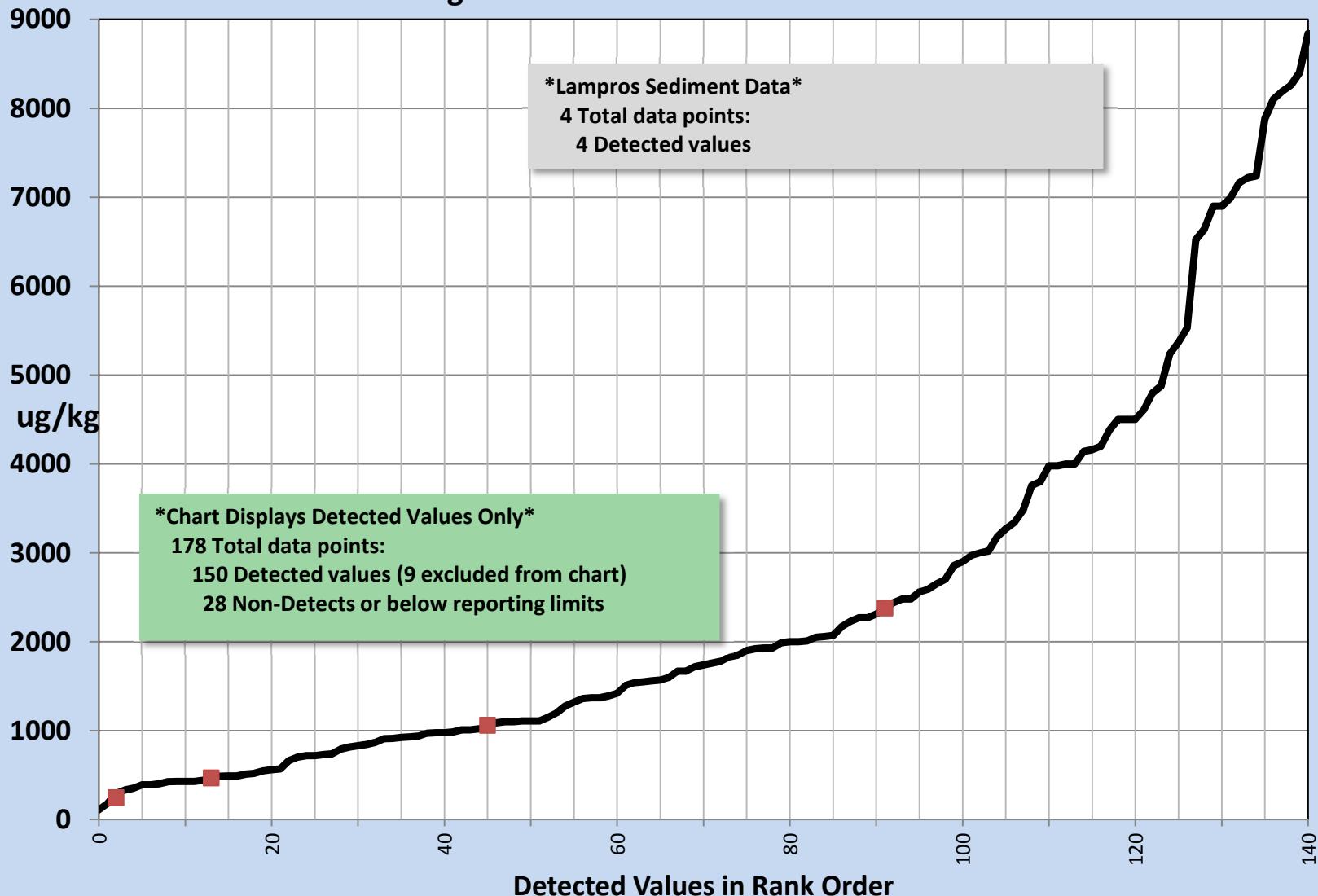
Bis(2-Ethylhexyl)phthalate in Stormwater Sediments at Portland Harbor Heavy Industrial Sites

8 Highest Values Excluded from Chart



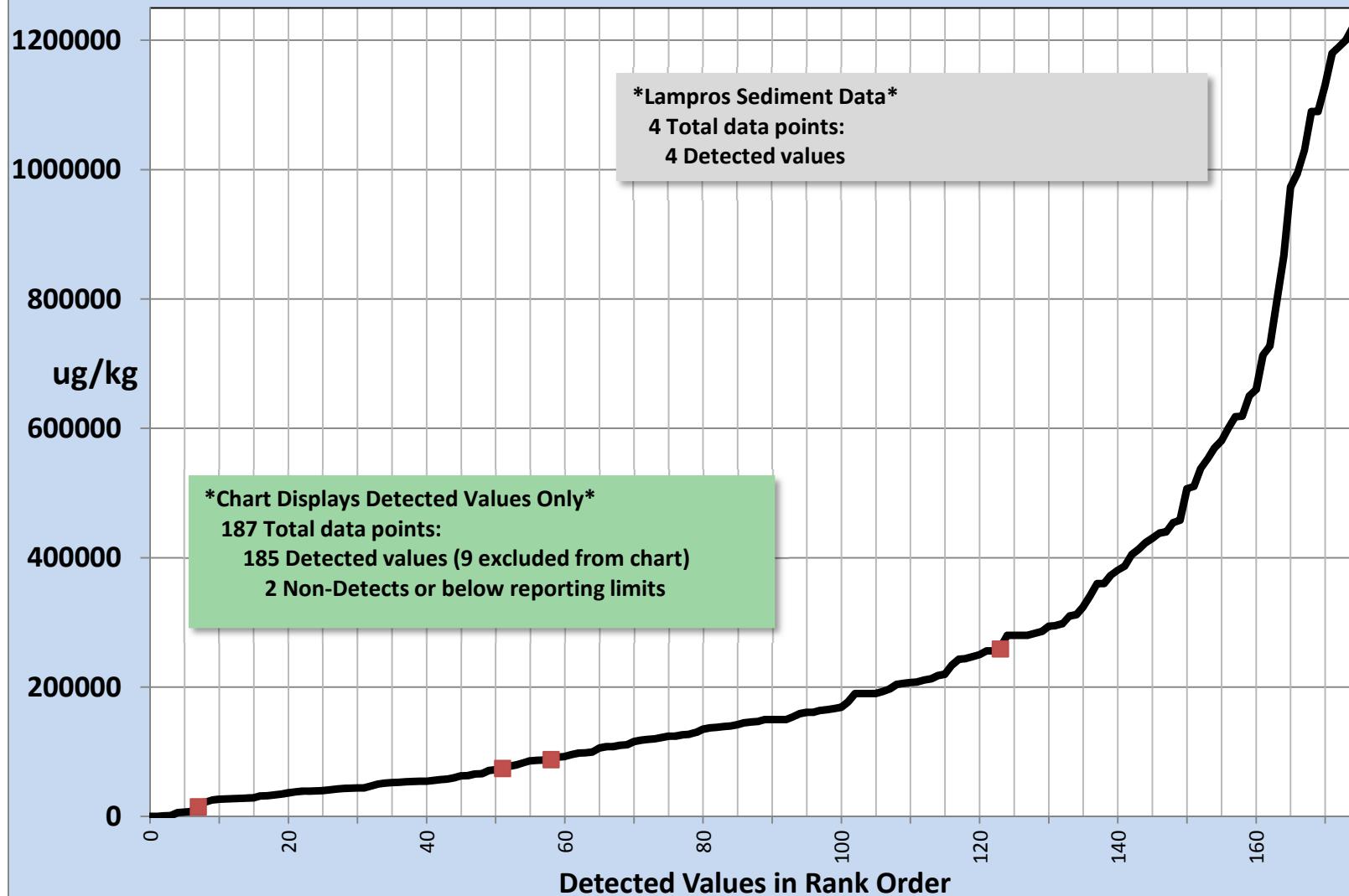
Cadmium (ug/kg) in Stormwater Sediments at Portland Harbor Heavy Industrial Sites

9 Highest Values Excluded from Chart



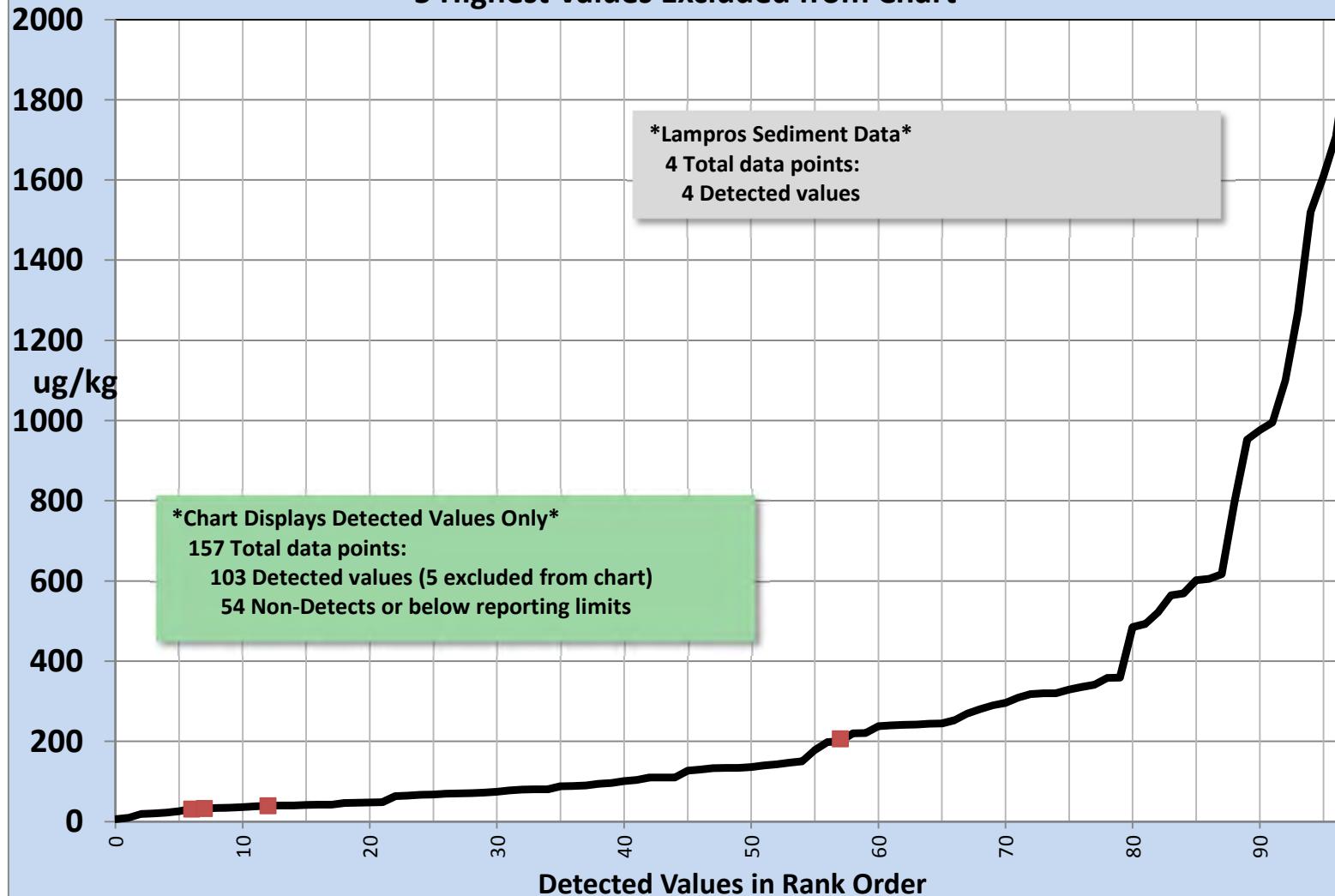
Lead (ug/kg) in Stormwater Sediments at Portland Harbor Heavy Industrial Sites

9 Highest Values Excluded from Chart



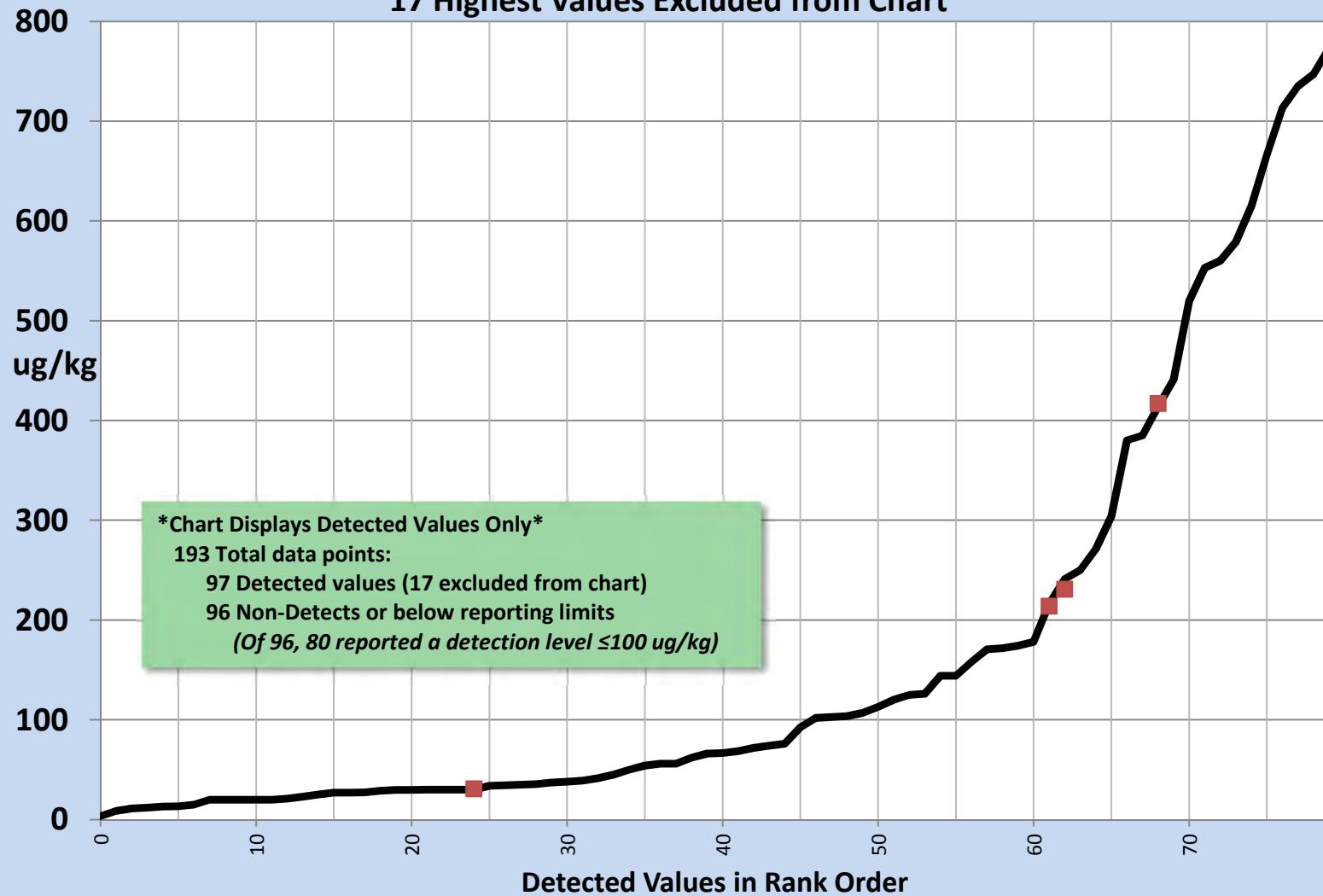
Mercury (ug/kg) in Stormwater Sediments at Portland Harbor Heavy Industrial Sites

5 Highest Values Excluded from Chart



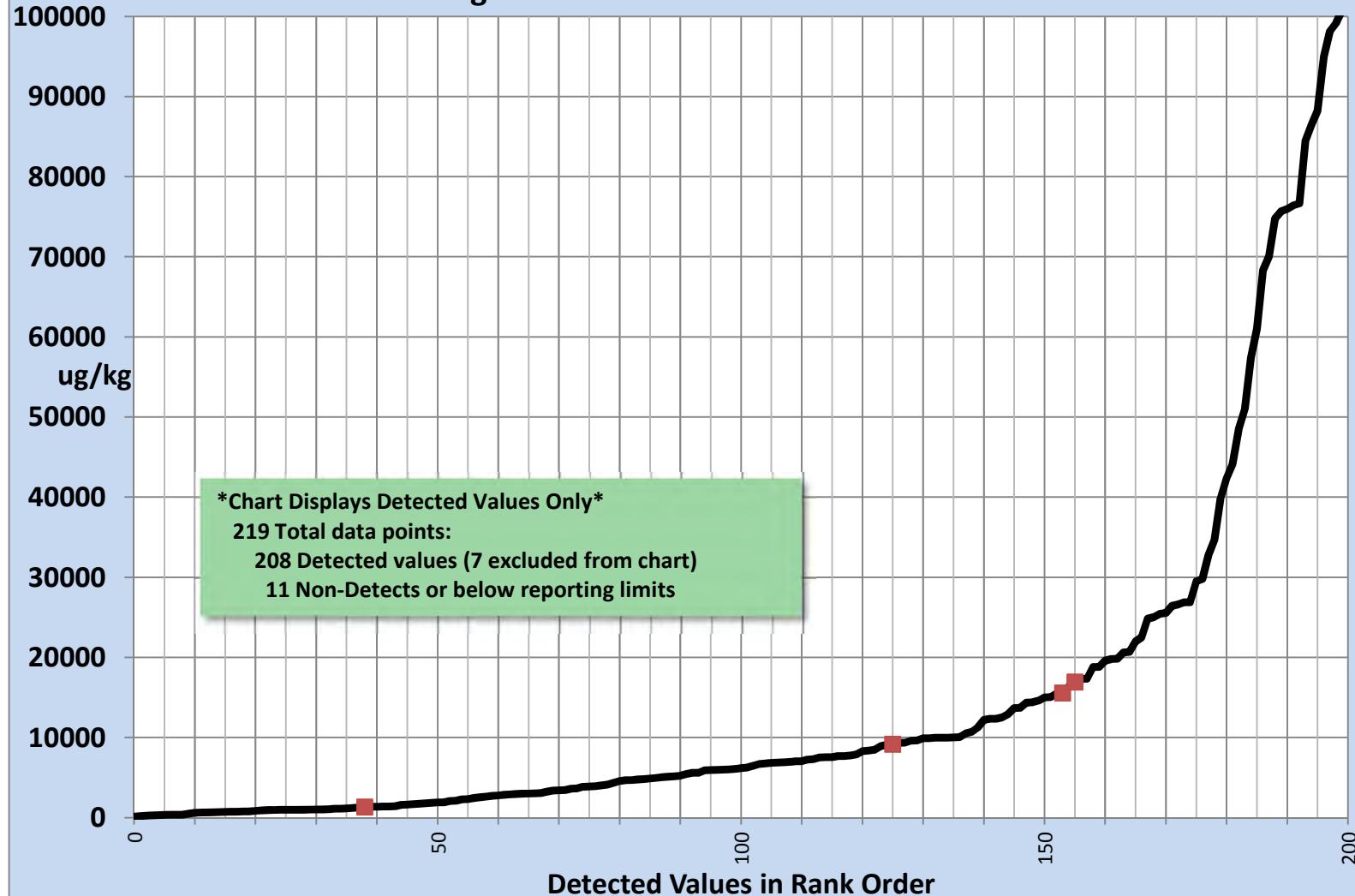
Total PCBs (ug/kg) in Stormwater Sediments at Portland Harbor Heavy Industrial Sites

17 Highest Values Excluded from Chart



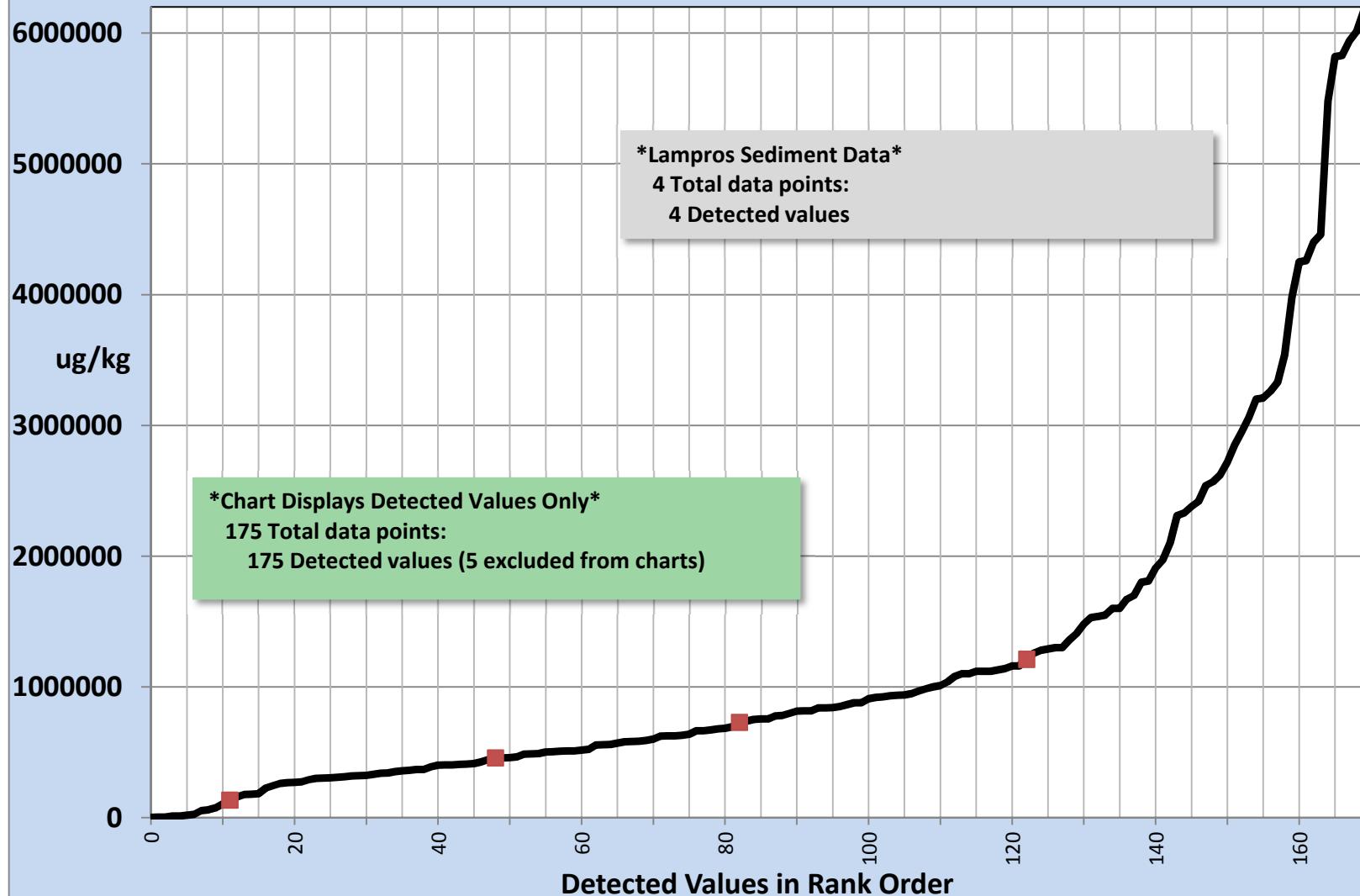
Total PAHs (ug/kg) in Stormwater Sediments at Portland Harbor Heavy Industrial Sites

7 Highest Values Excluded from Chart



Zinc (ug/kg) in Stormwater Sediments at Portland Harbor Heavy Industrial Sites

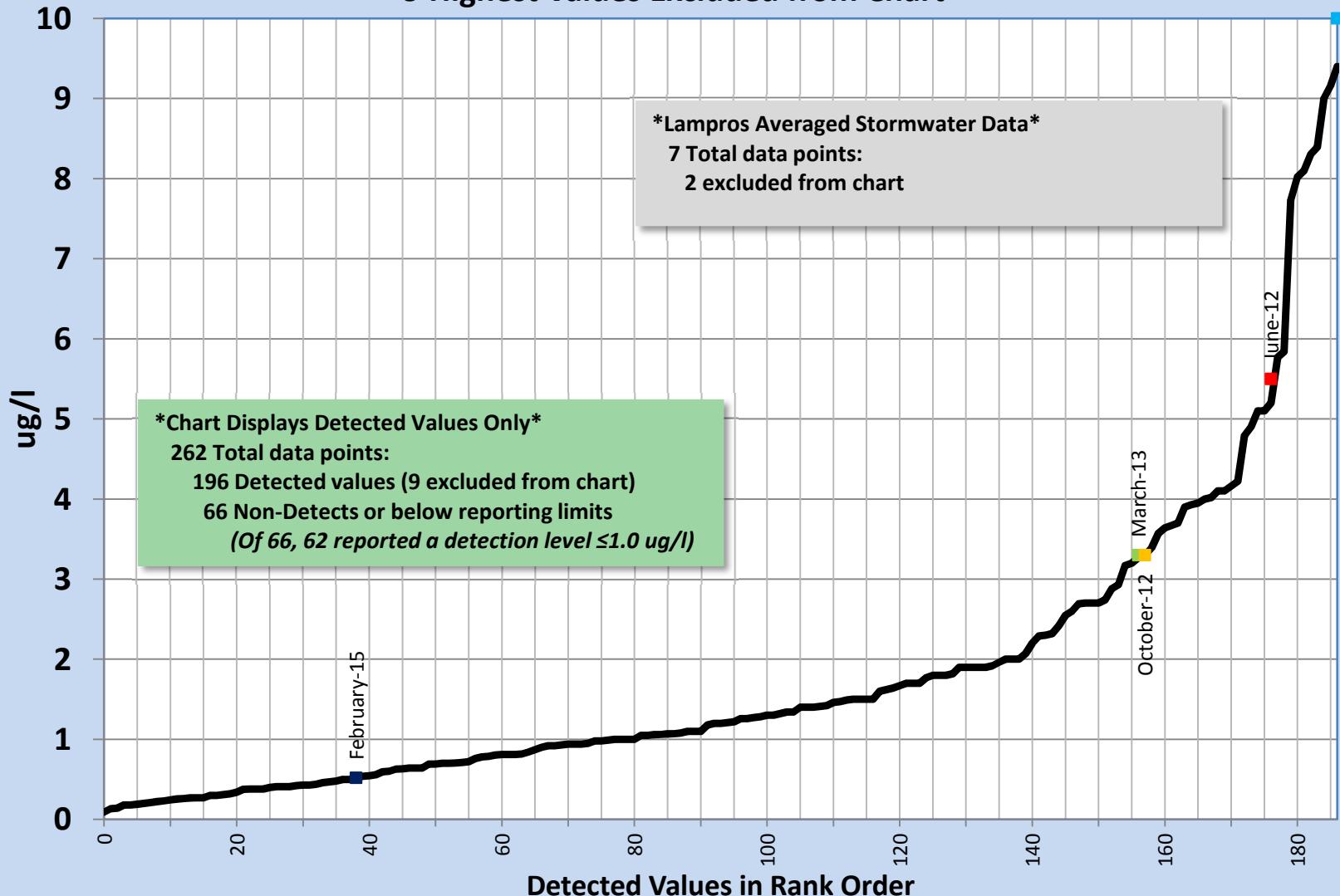
5 Highest Values Excluded from Chart



STORMWATER

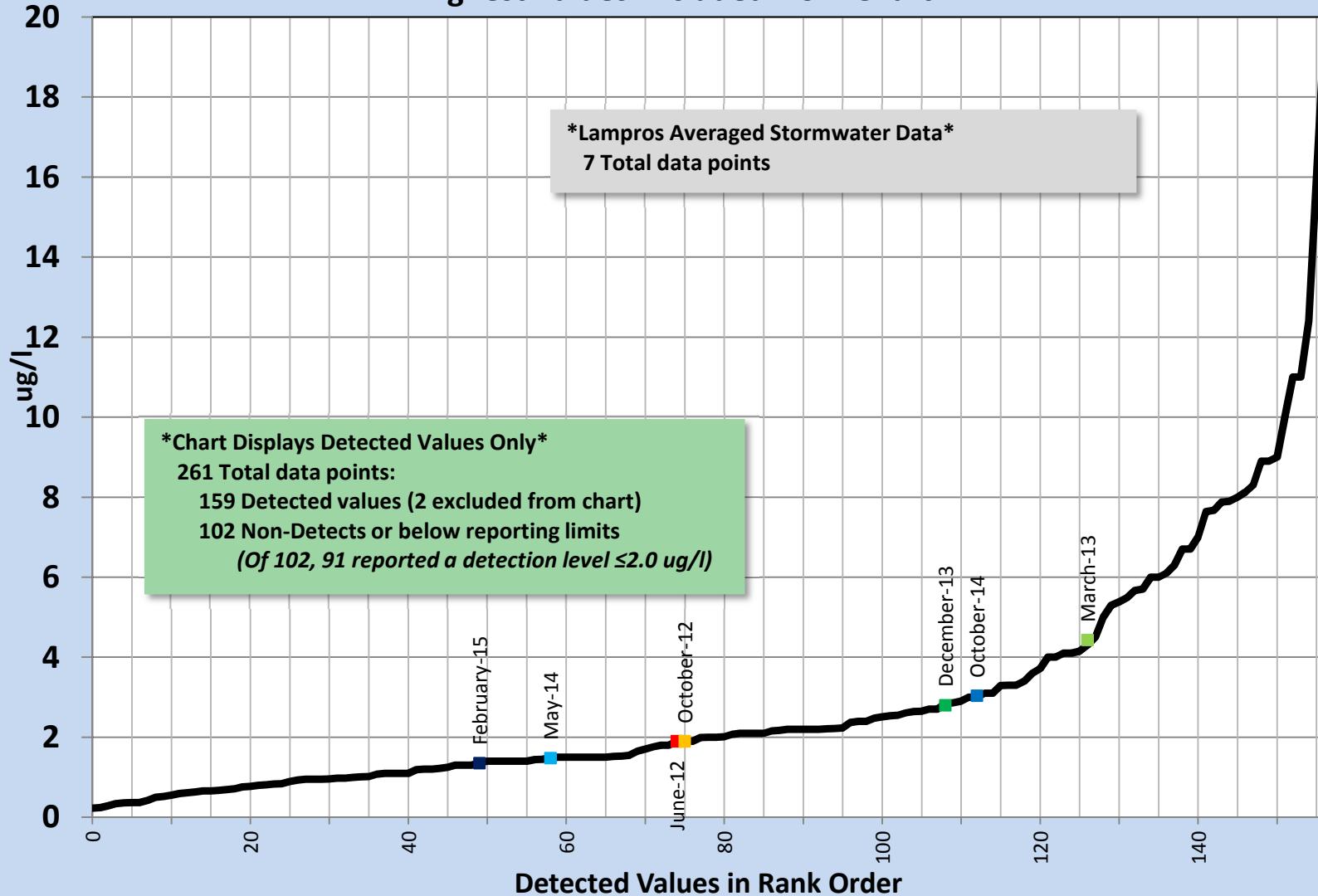
Arsenic (ug/l) in Stormwater at Portland Harbor Heavy Industrial Sites

9 Highest Values Excluded from Chart



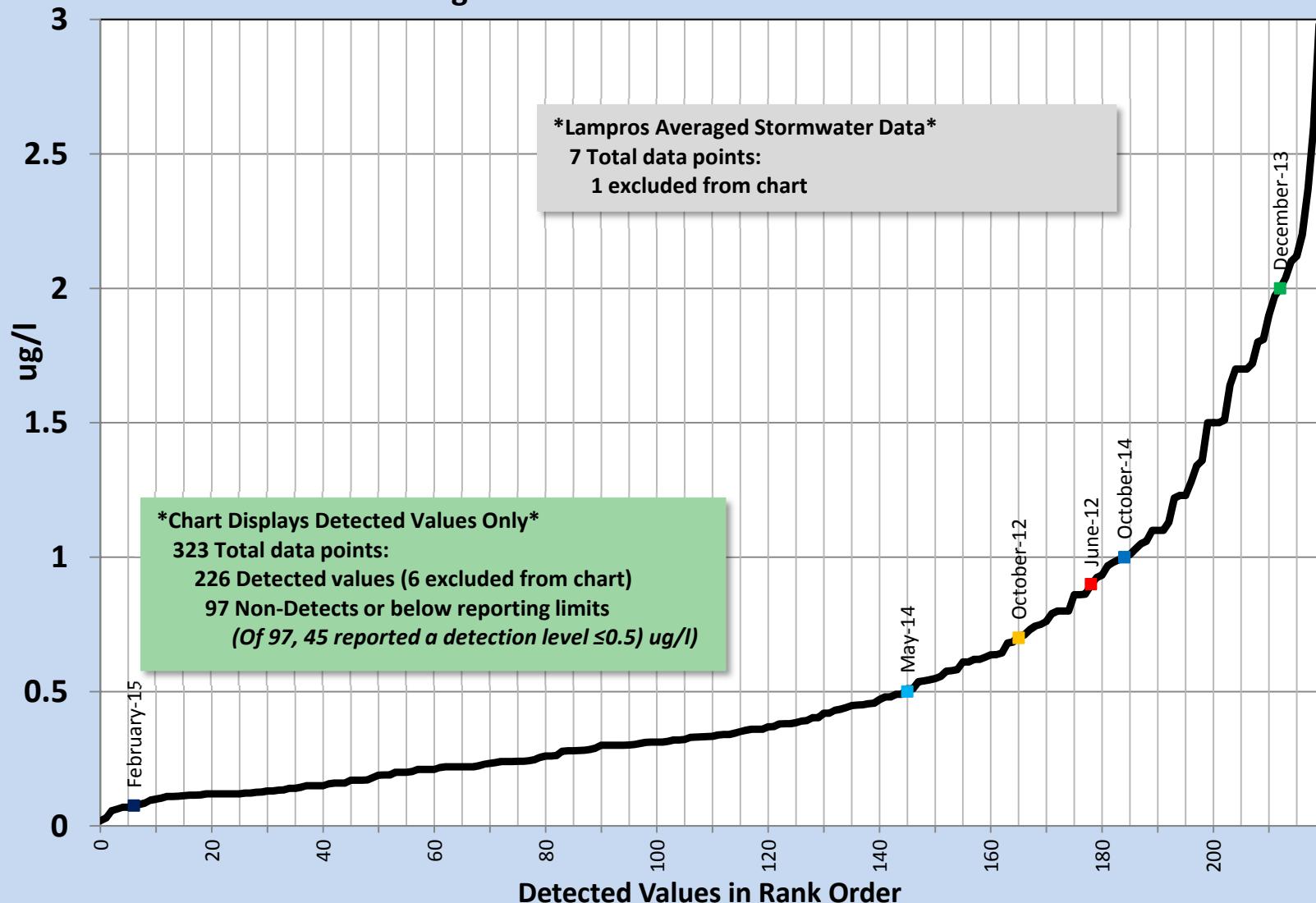
Bis(2-Ethylhexyl)phthalate in Stormwater at Portland Harbor Heavy Industrial Sites

2 Highest Values Excluded from Chart



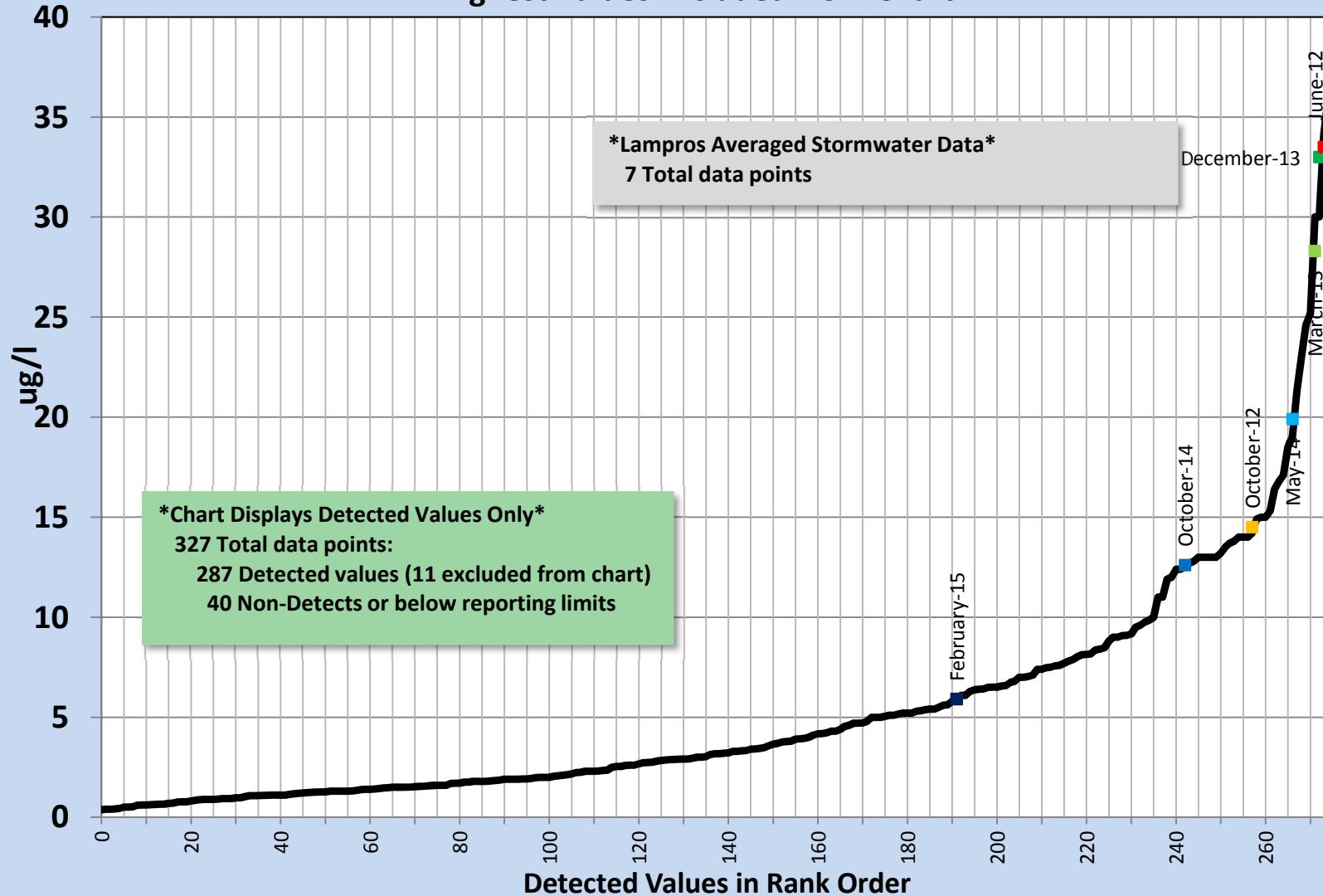
Cadmium (ug/l) in Stormwater at Portland Harbor Heavy Industrial Sites

6 Highest Values Excluded from Chart



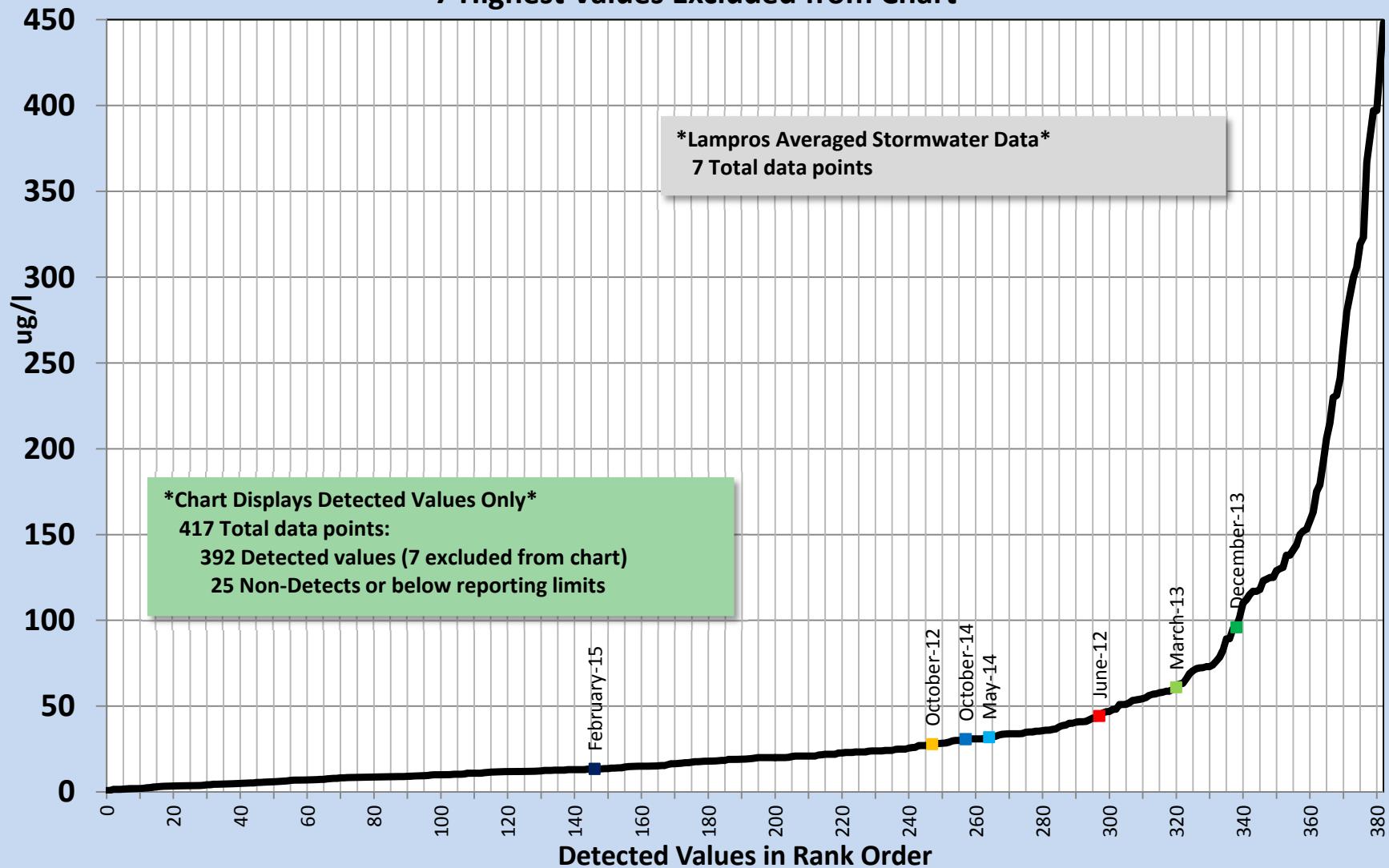
Chromium (ug/l) in Stormwater at Portland Harbor Heavy Industrial Sites

11 Highest Values Excluded from Chart



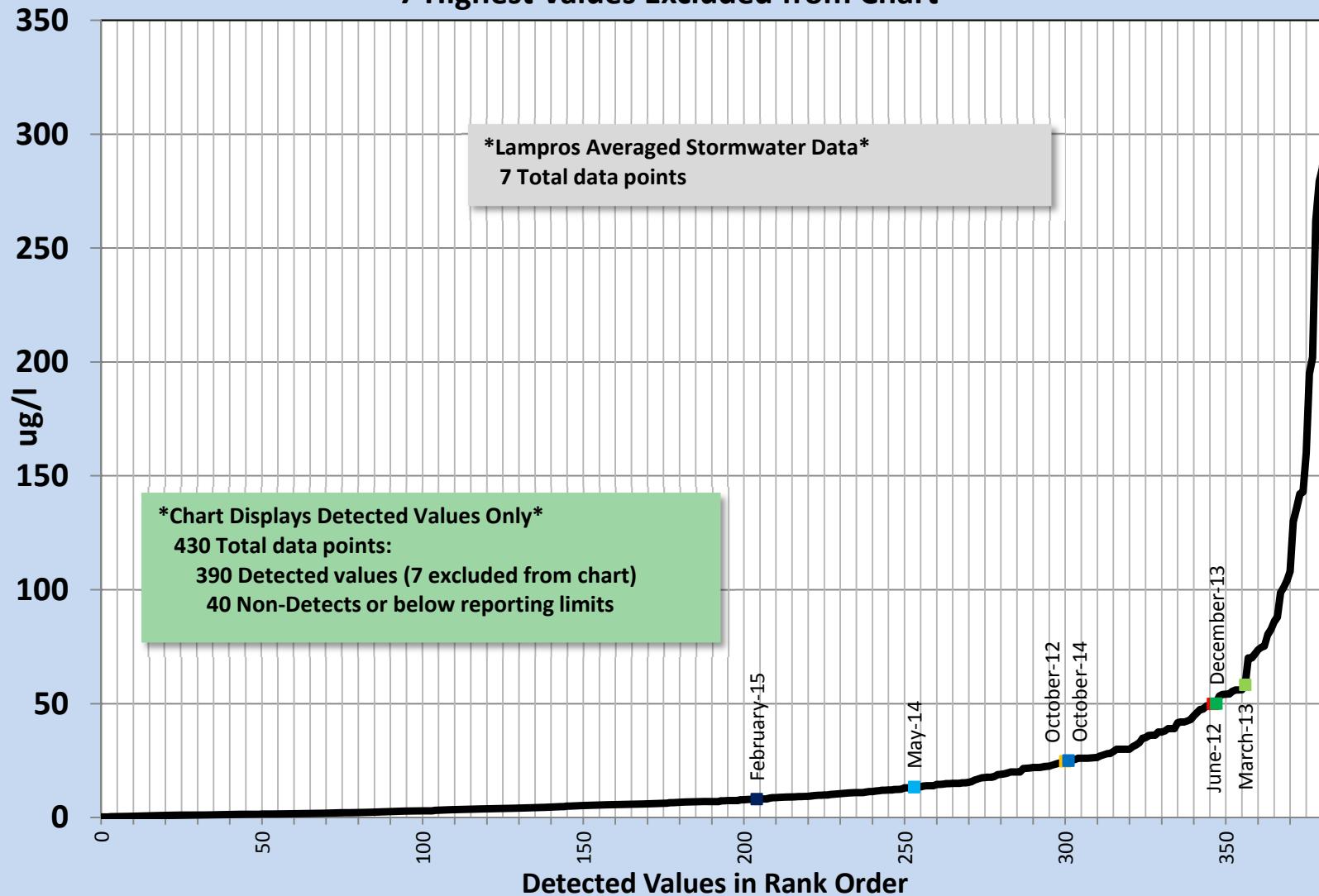
Copper (ug/l) in Stormwater at Portland Harbor Heavy Industrial Sites

7 Highest Values Excluded from Chart



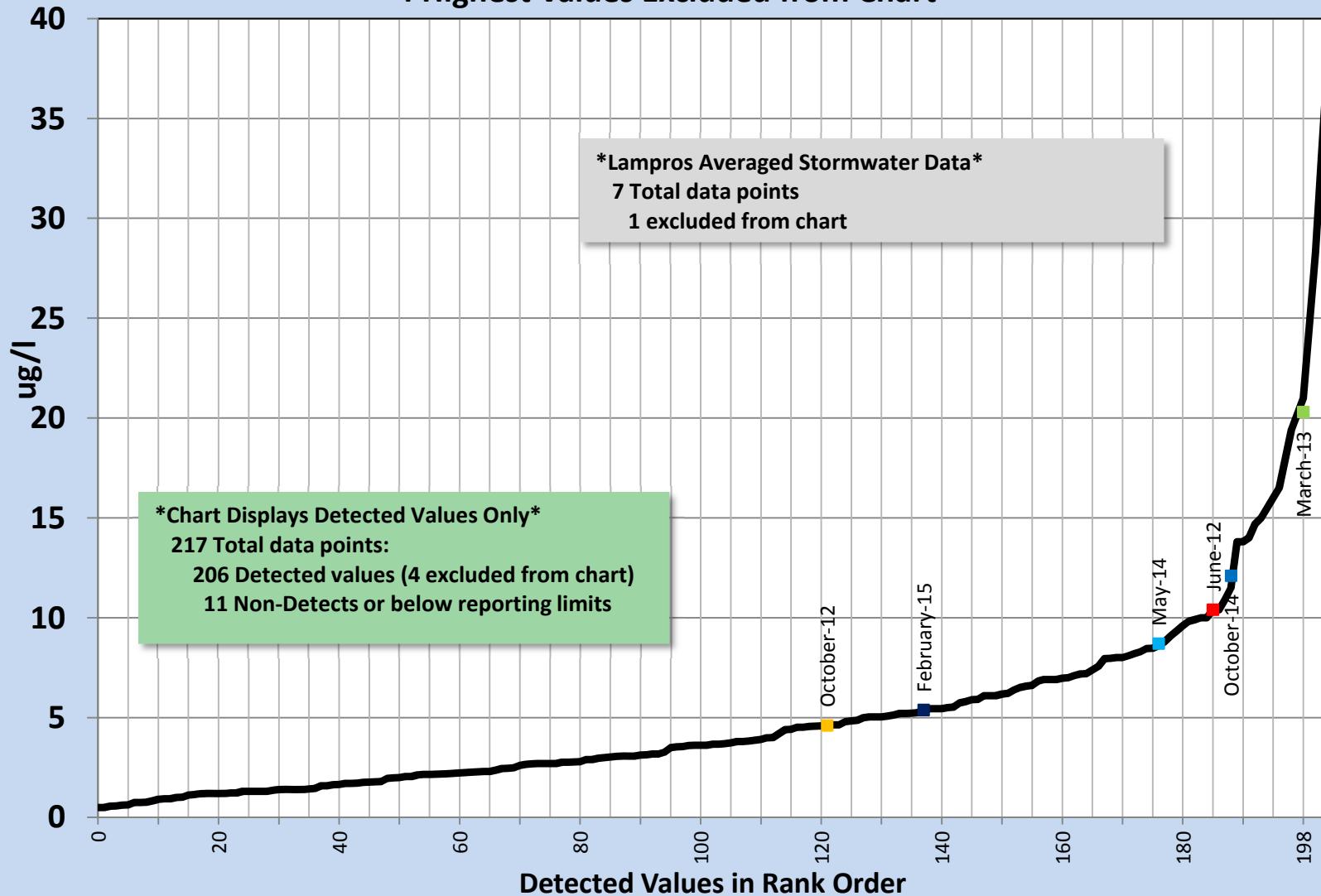
Lead (ug/l) in Stormwater at Portland Harbor Heavy Industrial Sites

7 Highest Values Excluded from Chart



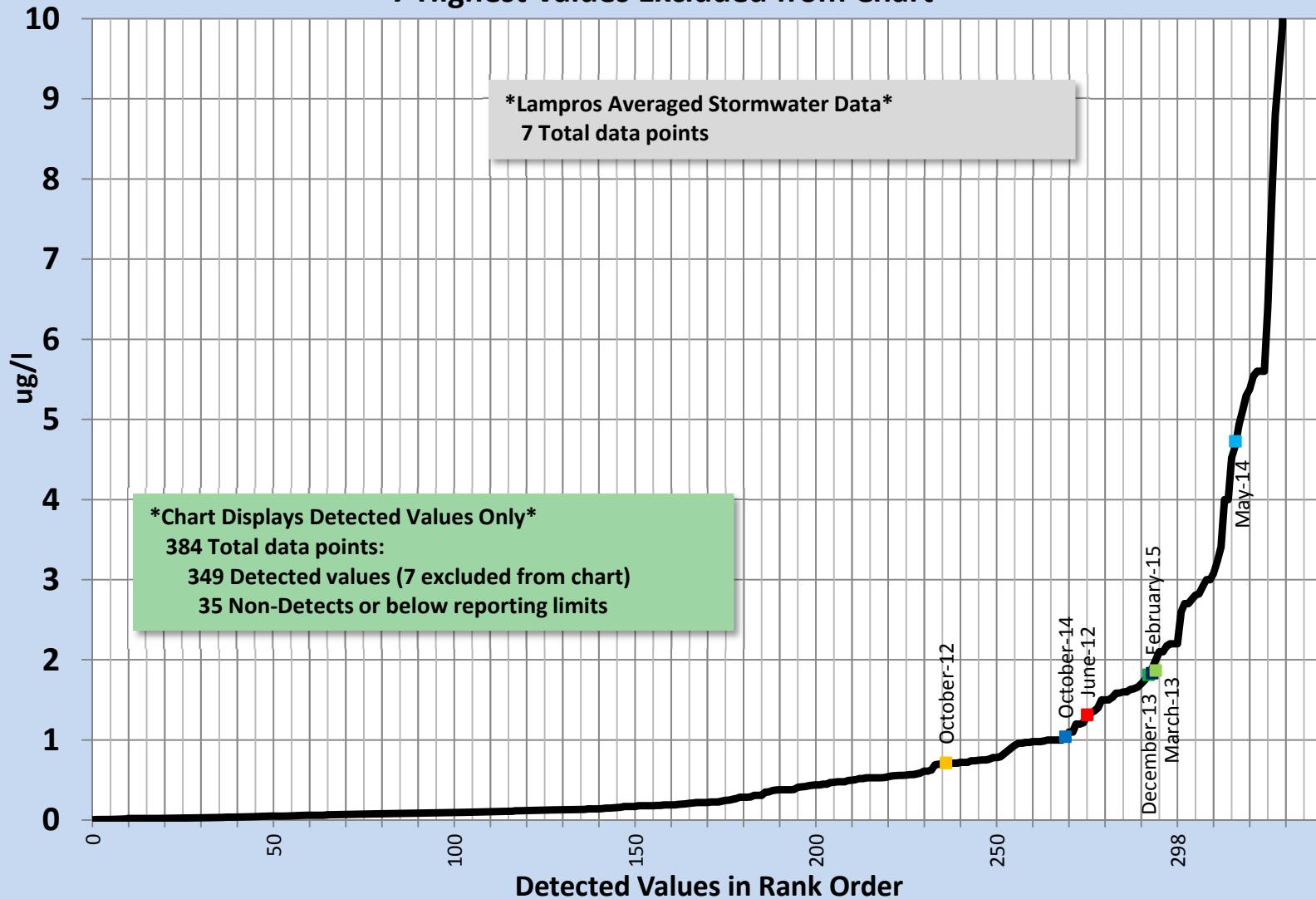
Nickel (ug/l) in Stormwater at Portland Harbor Heavy Industrial Sites

4 Highest Values Excluded from Chart



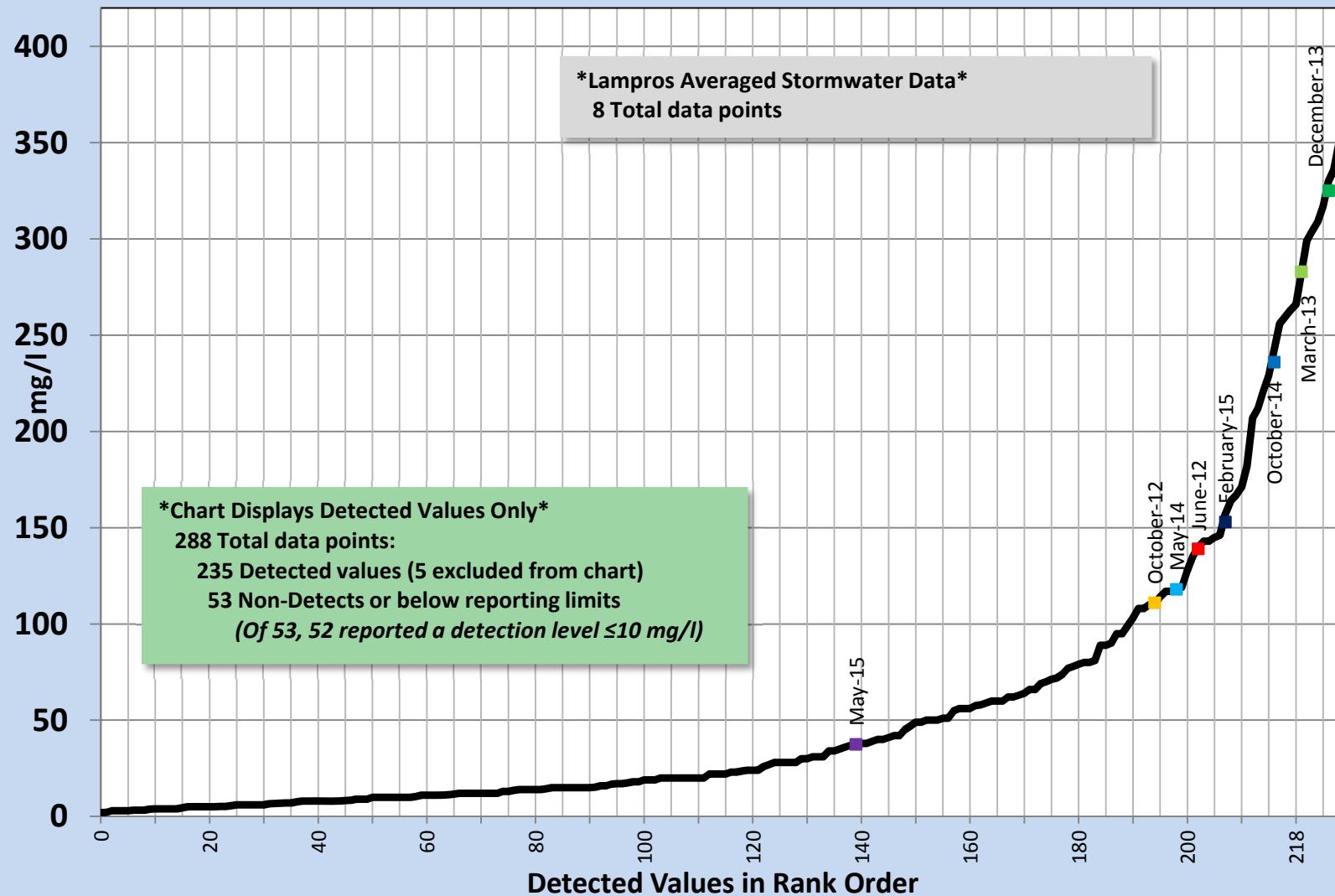
Total PAHs (ug/l) in Stormwater at Portland Harbor Heavy Industrial Sites

7 Highest Values Excluded from Chart



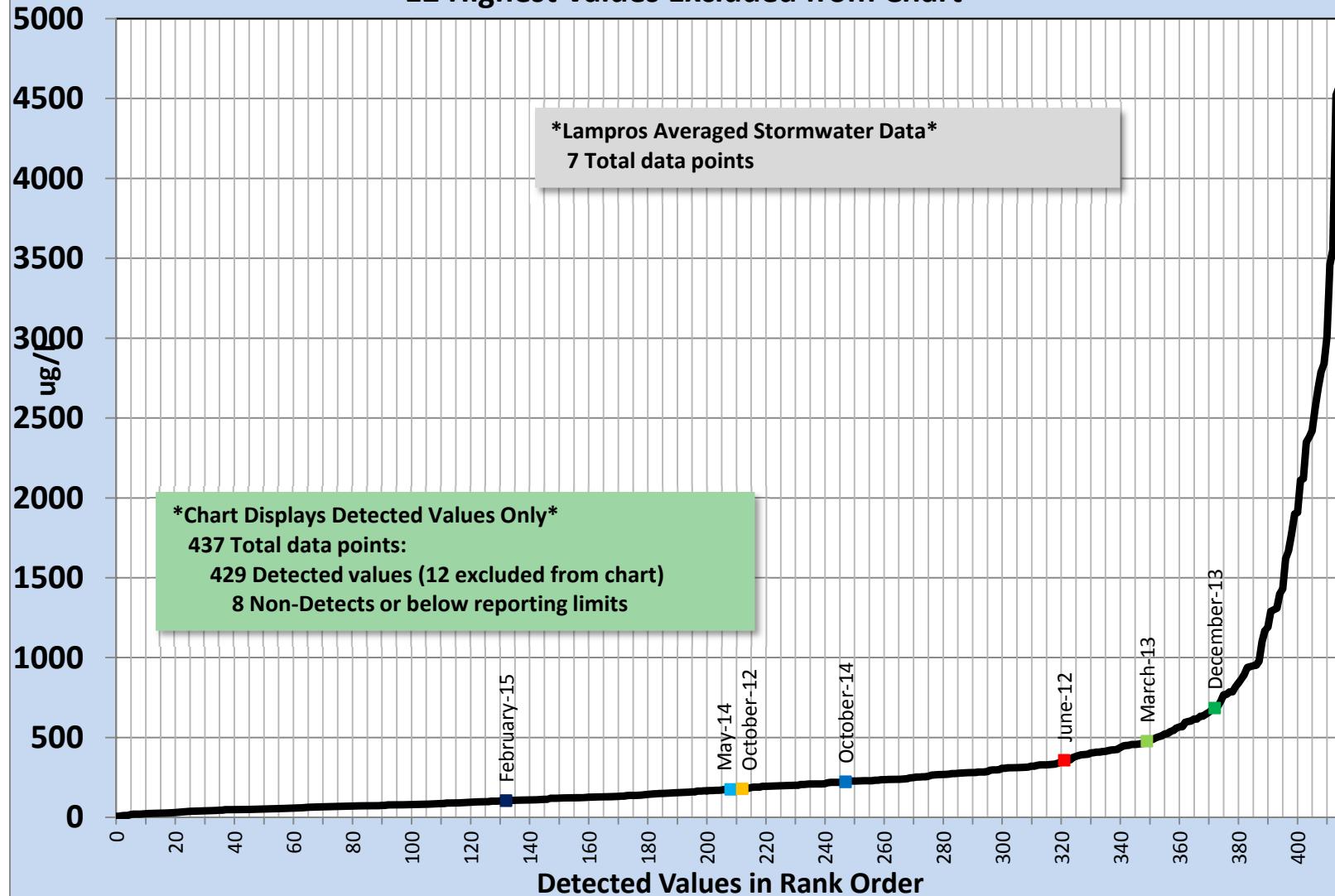
TSS (mg/l) in Stormwater at Portland Harbor Heavy Industrial Sites

5 Highest Values Excluded from Chart



Zinc (ug/l) in Stormwater at Portland Harbor Heavy Industrial Sites

12 Highest Values Excluded from Chart



APPENDIX F

TSS CONCENTRATION AND BMP IMPLEMENTATION

TSS Concentrations and BMP Implementation

